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PRELIMINARY ASSESSMENT

LANCIA OIL COMPANY, INC.

AKA: LANCIA TRANSPORT CORPORATION, INC.

HACKENSACK, BERGEN COUNTY EPA ID No: NJD002550366



New Jersey Department of Environmental Protection and Energy Division of Publicly Funded Site Remediation
Office of Site Assessment

LANCIA OIL COMPANY, INC. AKA: LANCIA TRANSPORT CORPORATION, INC. 340 SOUTH RIVER STREET HACKENSACK, BERGEN COUNTY, NEW JERSEY EPA ID # NJD002550366

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NARRATIVE

PRELIMINARY ASSESSMENT REPORT

PART I: GENERAL INFORMATION

Site Name: Lancia Oil Company, Inc. Aka: Lancia Transport Corp., Inc. Address: 340 South River Street

Municipality: Hackensack State: New Jersey Zip Code: 07601

County: Bergen

EPA ID No.: NJD002550366

Block: 28B Lot(s): 12
Block: Lot(s):

Latitude: 40° 52′ 03" Longitude: 74° 02′ 14"

Acreage: 1.4 SIC Code: 5171

Current Owner: Lancia Oil Company, Inc. Mailing Address: 340 South River Street

City: Hackensack State: New Jersey Zip Code: 07601

Telephone No.: (201) 342-5454

Current Operator: Lancia Oil Company, Inc. Mailing Address: 340 South River Street

City: Hackensack State: New Jersey Zip Code: 07601

Telephone No.: (201) 342-5454

Owner/Operator History:

NAME	OPERATOR/ OWNER	DATE:	5 <u>TO</u>
Arnold A. Hart	owner	unknown	1/31/39
Angelina DeFlora	owner	unknown	9/8/65
Caesar A. DeFlora	owner	1/31/39	1/19/71
Caesar A. DeFlora and Jordan DeFlora	owners	9/8/65	1/19/71
Lancia Oil Co., Inc.	operator (Lot 22)	7/68	Approx. 1973
Lancia Oil Co., Inc.	owner/ operator (Lot 12)	1/19/71	Present
(Attachments A. B. (C D and G)	•	

(Attachments A, B, C, D and G)

Surrounding Land Use (zoning, adjacent properties):

The site is located in a commercial/industrial zoned area of Hackensack. Oil companies are located to the north and south. A residential area is located approximately 900 feet to the west

across Hudson Street. The nearest school (Jackson Avenue School, South Hackensack) is located approximately 0.25 mile southwest of the site. (Map-1 and Map-4)

Distance to Nearest Residence or School: 900 feet

Direction: West

Population Density (residents per square mile): 8,999 (Per 1990

Census)

PART II: SITE OPERATIONS

Discuss all current and past operations at the site. Be sure to identify all waste sources, the type and quantity of hazardous waste at each source and the type of containment for each source.

Documentation indicates that Lancia Oil has been operating a fuel oil storage and distribution facility at this current location (Block 28B, Lot 12) since approximately June 1972. A March 31, 1971 aerial photograph of the site indicates that the location of the current facility was cleared and vacant land; however, a large above ground storage tank (AGST) appears to be located on property located adjacent to the north of the site (Block 28B, Lot 22). In an April 1961 aerial photograph, the site and this adjacent property are both vacant and large areas of ponded water can be observed. An August 1972 aerial photograph shows that the 800,000gallon fuel oil AGST currently used by Lancia Oil is located at its present location. It appears that some construction/excavation had been occurring at that time and a depression filled with water is in the location of the current 400,000-gallon fuel oil AGST. 400,000-gallon fuel oil AGST appears in a March 25, 1974 aerial In addition, what appears to be dark stains are located between the two fuel oil AGSTs and just west and south of a truck loading area. At this time the site did not appear to be paved. In a 1978 aerial photograph the western portion of the site appears to be paved and the current garage/office had been constructed. In the 1978 photograph, what appears to be a berm had been constructed around the two AGSTs and the adjacent lot does not In a 1991 aerial photograph of the appear to be paved or used. site, the adjacent lot appears to be paved and utilized for drum and material storage. (Attachment F)

According to Hackensack City tax records a 435,000-gallon fuel oil AGST was constructed on Lot 22 in 1969. In 1973 a loading rack which had been constructed on Lot 22 was moved to Lot 12. According to a May 22, 1968 Lease Agreement between John J. Law, Anna Law, Charles J. Law, Dorothea Law, Mary F. Prisendorf, John Prisendorf (landlords) and Lancia Transport Corp., Inc. (tenant), the site was leased/operated by the tenant for a period of five years (until 1973) with possible extension and or purchase options. This date corresponds with the removal date of the loading rack from Lot 22. Further documentation regarding Lancia Oil's operation of Lot 22 was not found in the files reviewed. During an

April 27, 1994 NJDEPE/Division of Publicly Funded Site Remediation (DPFSR), Office of Site Assessment Pre-Sampling Assessment (PSA), Mr. Ugo Lancia, president of Lancia Oil Company, Inc. stated that Lancia Oil did lease and operate on Block 28B, Lot 22, but moved after the initial lease expired. (Attachments A, C, D, F and PP)

The facility has the capacity to receive No. 2 fuel oil via barge and store it in two aboveground storage tanks, a 400,000-gallon moved from Lot 22 between 1972 and 1974 and an 800,000-gallon tank installed in June 1972. Besides No. 2 fuel oil, Lancia Oil also stores kerosene in a 15,000-gallon AGST located in the southwestern portion of the berm area. In addition to the aboveground storage tanks, documentation indicates that Lancia Oil maintains a 2,000gallon diesel underground storage tank (UST). However, a June 2, 1984 USEPA Technical Assistance Team (TAT) SPCC inspection indicated that the 2,000-gallon UST contained gasoline. Currently fuel oil is only received via tank truck due to marine transfer of fuel oil being discontinued about one year ago. The 400,000-gallon AGST has been out of service for approximately two years. the April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, Mr. Lancia stated that Lancia Oil's operations have been greatly reduced for the last year and the company currently leases their storage and transfer facility to Coastal Oil. (Attachments F, H, I, K, M and PP)

As stated, the two fuel oil AGSTs and the kerosene tank are contained within a diked area. Documentation indicates that the dike is constructed of three concrete block walls ranging from 4 to 8 feet in height and an earthen/clay dike section along the north side ranging in height from 3 to 7 feet. Total capacity of the dike is approximately 880,000 gallons. The tanks within the containment area sit upon clay, fill and gravel. According to a May 20, 1993 Discharge Prevention Containment and Countermeasure (DPCC) Plan, the AGSTs are integrity tested on an annual basis by

Accurate Tank Testing Company of Franklin Lakes, New Jersey. During an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, readings up to 90 parts per million were detected on an HNu photoionization detector from holes driven into the soil within the containment area. (Attachments H, I and PP)

The facility has four main loading/unloading areas, the Fuel Oil Loading Area located west of the tank farm, the Kerosene Loading Area located near the southwest corner of the tank farm, the Truck Unloading Area located south of the tank farm and the Marine Transfer Area. The Fuel Oil Loading Area is the location where No. 2 fuel oil is transferred to tank trucks for shipment. The area is constructed of concrete and has no secondary containment. During an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, oil staining was observed within this area. In addition, a 275-gallon fuel oil AGST is located underneath the loading rack. The Kerosene Loading Area is constructed of concrete and has no secondary containment. During the NJDEPE/DPFSR, Office of Site Assessment PSA, Mr. Lancia stated that the kerosene tank is almost empty and will not be used in the future. No significant staining was

observed in this area. The Truck Unloading area is also constructed of concrete and during the April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, an approximate 3-inch asphalt berm was noted along the western edge of the area; however, this did not appear adequate as oil staining was noted west of the area within the storm water retention area. The Marine Transfer Area is currently inactive and consists of a wooden dock with aboveground piping for the transfer of No. 2 fuel oil. (Attachments I and PP)

Records indicate that Lancia Oil does not routinely generate hazardous wastes. NJDEPE manifest records from 1989 to 1992 were reviewed and no record regarding the manifest of hazardous wastes were found. According to an April 24, 1988 Spill Prevention Control and Countermeasure Plan, oil impacted soil would be transported to Coastal's main terminal and disposed of via their contractor. During the April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, Mr. Gary Coyle, plant manager, stated that the tanks are cleaned out once every 3 to 4 years. No further information was found in the files reviewed regarding waste disposal. (Attachments H and PP)

Incidents of spills and or release have been documented. What appears to be stained areas were noted between the two fuel oil AGSTs and west and south of a truck load/unload area in a March 25, 1974 aerial photograph.

On April 15, May 12 and May 20, 1987 the NJDEP/Division of Water Resources (DWR) inspected Lancia Oil. During the inspections numerous spills were noted around the loading area as well as a drum storage area located in the northwest corner of the yard area and along the southern fence line adjacent to the Hackensack River. A Notice of Violation (NOV) was issued at that time and a Directive Letter was issued on June 10, 1987. (Attachments N, P and SS)

On May 5, 1988 the NJDEP/DWR received a reply to the June 10, 1987 Directive Letter. Lancia Oil stated that drums containing waste motor oil were disposed of through Lionetti Waste Oil Company, the yard area had been cleaned and the contaminated soil had been cleaned up and was awaiting disposal. On May 31, 1988 six drums of X-725 waste were manifested to Cycle Chem, Inc. of Elizabeth, New Jersey. (Attachment TT)

During a May 2, 1989 NJDEP/DWR inspection of the facility an oil sheen was noted on a paved area as well as oil-soaked gravel. A sheen was also noted on ponded water located in the southeastern corner of the site. The contaminated water was also observed to have entered the Hackensack River. At the time of the inspection Lancia Oil was given a NOV for poor housekeeping. (Attachments N and RR)

On January 14, 1992 the facility was inspected by the NJDEPE/Water and Hazardous Waste Enforcement to determine if dikes were constructed to prevent any storm water runoff from entering the

Hackensack River. At the time of the inspection there was a dike along the perimeter except for an approximate 8-foot opening along the river side. Lancia was issued a Notice of Violation and instructed to close the opening and to install a berm along the concrete loading area. A follow-up inspection conducted on February 25, 1992 revealed that the 8-foot opening had been closed and a berm had been constructed along the edge of the concrete loading area. (Attachments N, T and RR)

During the April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, oil staining was observed in several areas of the storm water retention area and readings up to 50 ppm were detected on a HNu photoionization detector. Three old drums were also noted along the southern fence line and appeared to contain water and soil. Mr. Lancia stated that the drums contained gravel and dirt which the NJDEP directed him to remove as a result of the May 2, 1989 inspection. Oil spills and staining were also observed in the Fuel Oil Loading Area and near the northwestern corner of the office building where several drums of oily water were observed. (Attachments N, PP and RR)

On October 13, 1992 the NJDEPE/Bureau of Discharge Prevention received the DPCC and Discharge Cleanup and Removal (DCR) plans for Lancia Oil Company, Inc. and found them to be both administratively and technically complete on January 12, 1993 and June 14, 1993, respectively. On June 15, 1993 the NJDEPE/Bureau of Discharge Prevention approved Lancia Oil's DPCC and DCR plans. The DPCC plan includes a compliance schedule which calls for the construction of secondary containment in the Fuel Oil Loading Area, the Kerosene Loading Area and the Truck Unloading Area, the installation of leak detection devices for piping in the Fuel Oil Loading Area and the Truck Unloading Area, the installation of overfill devices and the implementation of a training program and tank integrity testing and development of Standard Operating Procedures. (Attachments I and J)

PART III: PERMITS

A. NJPDES

Number	Discharge	Date	Expiration	Formation or Body of
	<u>Activity</u>	<u>Issued</u>	<u>Date</u>	Water Discharged To
иЈ006978	7 DSW	never	issued	Hackensack River

On April 15, 1987 the NJDEP/DWR/Metro Field Office conducted an industrial survey of Lancia Oil at the USEPA's request. The inspection revealed oil spills throughout the loading and transfer areas. On June 10, 1987 Lancia Oil was directed to cease the discharge of oil products, clean and properly dispose of contaminated soil and obtain a NJPDES discharge to surface water permit due to contaminated runoff entering the Hackensack River.

On October 2, 1987 and April 6, 1988 the NJDEP/DWR issued Directive and Delinquent Reply letters to Lancia Oil due to noncompliance with the June 10, 1987 Directive. On May 2, 1988 Lancia Oil responded to the NJDEP/DWR's April 6, 1988 final notice Directive. (Attachments N, Q, RR, SS and TT)

Lancia Oil submitted a NJPDES permit application for the discharge to surface water; however, Lancia Oil and the NJDEP/DWR agreed that a NJPDES permit would not be needed if dikes were constructed to prevent storm water runoff from entering the Hackensack River. A February 25, 1992, NJDEPE/DWR inspection concluded that the dikes were in place around the facility's perimeter and berms along the concrete loading area had been constructed. As a result the NJDEPE/DWR/Bureau of Industrial Discharge Permits requested the NJDEPE/DWR/Bureau of Permit Management to inactivate permit application No. NJ0069787. (Attachments R, S and T)

B. New Jersey Air Pollution Control Certificates

Plant ID No.: 01143 No. of Certificates: 1

Equipment Permitted: Lancia Oil maintains an air pollution certificate for two #2 fuel oil tanks with a total capacity of 1.2 million gallons. However, the permit expired on December 16, 1993. (Attachments U, and V)

C. BUST Registration

Registration No.: No. of Tanks:

Tank No. Capacity (gallons)

(gallons) Contents of Tank Integrity

The facility does not maintain any registered underground storage tanks with the NJDEPE. However, in an April 24, 1988 SPCC Plan it was stated that Lancia Oil operated a 2,000-gallon diesel UST located along the southwestern property line. During an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, the fill cap and pump were observed on site and Mr. Lancia stated that the tank was no longer in use. (Attachments H and PP)

D. Other Permits

Agency Type of Date Expiration

<u>Issuing Permit</u> <u>Permit No.</u> <u>Issued</u> <u>Date</u>

None

PART IV: GROUND WATER ROUTE

A. HYDROGEOLOGY

Describe geologic formations and aquifer(s) of concern. Include interconnections, confining layers, discontinuities, composition, hydraulic conductivity and permeability.

Lancia facility Oil is located within the Piedmont Physiographic Province which consists of lowlands and gently rolling hills which are underlain by the Brunswick Formation. The Brunswick Formation is the bedrock formation in the area of the site and consists of reddish-brown mudstone, siltstone, sandstone and conglomerate. In the area of the site the Brunswick Formation predominantly consists of sandstone and shale. The sandstone beds are relatively thick and well cemented while the shale beds are softer and weather easily. The Brunswick Formation is estimated to be between 6,000 and 8,000 feet thick. (Attachments X and Y)

The Brunswick Formation is one of the major aquifers in the area. Virtually all the ground water in the Brunswick Formation occurs in interconnecting fractures and joints and is tapped for both industrial and public supply uses. (Attachments X, Y and Map-5)

Overlying the Brunswick Formation are unconsolidated deposits that were predominantly deposited during the Wisconsin glaciation of the Pleistocene Epoch. The material was deposited as till, consisting of an unstratified mixture of cobbles, gravel and sand and/or as stratified drift, consisting of layers gravel, sand and clay. In the area of the site the glacial deposits consist of silt and clay and are approximately 85 feet thick. (Attachments X and Y)

The stratified drift deposits are also utilized for potable supplies. The thickness of the stratified drift varies greatly but can be as much as 300 feet thick in the Hackensack Meadows area. Within 4.0 miles of the site only two wells drawn from it for public supplies. Both wells are operated by the Hackensack Water Company and are 168 and 190 feet deep. (Attachments X, Y and Map-5)

Depth to aquifer of concern: Approximately 85 feet
Depth from lowest point of waste disposal/storage to highest
seasonal level of the saturated zone of the aquifer of concern: 85
feet

Permeability of the least permeable layer between the ground surface and the aquifer of concern: silty clay, 10-6

Thickness of aquifer: 6,000 - 8,000 feet
Direction of ground water flow: east (stratified drift)

Karst (Y/N): N
Wellhead Protection Area (Y/N): N

Distance:

B. MONITORING WELL INFORMATION

ScreenWell No.DepthFormationLocation

No monitoring wells have been installed on site.

Identify the upgradient well(s): N/A

Briefly discuss why the monitoring wells were installed and describe contaminants identified in the monitoring wells. Include well No., sampling date, sampling agency or company, contaminant levels and cleanup standards.

According to an April 24, 1988 Spill Prevention, Control and Countermeasure Plan (SPCC) for Lancia Oil Company prepared by Equipment Specialists Incorporated of Somerville, New Jersey, ten 2-inch core locations were proposed throughout the facility. The 2-inch core locations were proposed to be converted to monitoring wells; however, no documentation indicates that these borings were completed or wells installed. During an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, no monitoring wells were observed on site. (Attachments H and PP)

C. POTABLE WELL INFORMATION

Distance to nearest potable well: 0.4 mile north-northeast Depth of nearest potable well: 550 feet (Brunswick Formation) (Map-5)

Identify all public supply wells within 4 miles of the site:

Water Company	Distance from site (miles)	Depth (feet)	<u>Formation</u>
Hackensack Water Co.	0.4	550	GTRB
Hackensack Water Co.	0.9	235	GTRB
Hackensack Water Co.	1.0	350	GTRB
Hackensack Water Co.	2.1	190	GQSD
Hackensack Water Co.	2.2	168	GQSD
Hackensack Water Co.	4.0	473	GTRB
Wallington Boro	* 3.1	400	GTRB
Wallington Boro	* 3.6	400	GTRB

GTRB = Brunswick Formation

GQSD = Pleistocene Stratified Drift

* = closed due to volatile organic contamination
(Map-5 and Attachment BB)

Discuss private potable well use within 4 miles of the site. Include depth, formation and distance, if available.

Review of NJDEPE well records identified three domestic wells located within approximately 1.0 mile of the site. The wells range from 95 to 100 feet and were installed in 1957, 1965 and 1971. It is unknown if these wells are still in service. According to an October 15, 1991 Hackensack Department of Health document listing of wells in Hackensack, there are approximately ten wells within Hackensack used for potable purposes located at the following addresses:

- * 54 Cleveland St.
 44 Elizabeth St.
 300 Fairmount Ave.
 13 Henry Pl.
 220 Hopper St.
 154 Hudson St.
 221 South Newman St.
 135 Sussex St.
 Temple Ave.
 92 Myers St.
- * Well depths were not recorded.

(Attachments Z and EE)

According to documentation there are approximately five domestic wells within the municipality of New Milford located 4.0 miles to the north. (Attachment EE)

The vast majority of residents within 4.0 miles of the site are supplied with public water, with the Hackensack Water Company supplying most of the surrounding municipalities. (Attachment AA)

Discuss the site's source of potable water.

The site obtains its potable water from the Hackensack Water Company. (Attachments AA and PP)

Discuss for each aquifer the population utilizing that aquifer for drinking purposes within 4 miles of the site.

Distance from site (miles)	Population Aquifer Name	
	Brunswick	Stratified Drift
0 - 1/4	0	, 0
1/4 - 1/2	4,220	, O
1/2 - 1	8,440	15
1 - 2	0	10
2 - 3	0	8,445
3 - 4	4,220	10

(Attachments Z, AA, DD and EE)

Discuss any evidence of contaminated drinking water or wells closed due to contamination. State whether Level 1 or Level 2 contamination is present.

The public supply wells for the Wallington Water Department are located between 3 and 4 miles from the site. In 1985 and 1986 four of the five wells operated by the Wallington Water Department were found to be contaminated with volatile organics up to 85 ppb trichloroethene and 1,100 ppb 1,2-dichloroethene. However, this contamination is not attributable to the site. (Attachment CC)

Identify industrial/irrigational wells within the vicinity of the site. Include depth, formation, distance and direction, if available.

There are no irrigational wells in the vicinity of the site. Spinnerin Yarn Company, Inc. operates six wells located approximately 0.6 mile northwest of the site. The wells range in depth from 230 to 455 feet and draw from the Brunswick Formation. (Map-5)

D. POTENTIAL

Discuss the potential for ground water contamination, including any other information concerning the ground water contamination route.

The potential for ground water contamination exists. Operations include the bulk storage and transport of fuel oil. Historic aerial photography indicates that the site may not have been paved in the early to mid 1970s. Past inspections have noted spills and poor housekeeping. Storm water runoff from the site enters an unpaved retention area. Oil spills and debris were noted in this area during an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA. (Attachments H, I, N and PP)

PART V: SURFACE WATER ROUTE

A. SURFACE WATER

Does a migration pathway to surface water exist (Y/N): Y Flood plain: 100 year (Map-7) Slope: 0 to 3 percent (Map-1)

Does contaminated ground water discharge to surface water (Y/N): Unknown

Identify known or potentially contaminated surface water bodies. Follow the pathway of the surface water and indicate all adjoining bodies of water along a route of 15 stream miles.

Surface Water Body	Distance from site	Flow(cfs)	<u>Usage(s)</u>
Hackensack River	adjacent	1,000-10,000	Industrial boating fishing
Newark Bay	14.4 miles	NA	Industrial/ commercial boating fishing

(Attachments FF and GG)

Identify drinking water intakes within 15 miles downstream (or upstream in tidal areas) of the site. For each intake identify the distance from the point of surface water entry, the name of the supplier and population served.

There are no drinking water intakes within 15 miles downstream of the site.

Briefly discuss surface water or sediment sampling conducted in relation to the site. Discuss visual observations if analytical data is not available (include date of observation). Include surface water body, sampling date, sampling agency or company, contaminant. State whether Level 1 or Level 2 contamination is present.

No documentation of surface water or sediment sampling in relation to the site was found in the files reviewed. Release to surface water has been documented. On May 2, 1989 representatives of the NJDEP/DWR noted oil-stained gravel and a large puddle with a heavy oil sheen in the southeastern portion of the site. The ponded water had breached an earthen berm and another oil sheen was observed entering the Hackensack River. No sheen was observed on the Hackensack River during an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA; however, readings up to 50 ppm were

detected on a HNu photoionization detector from holes driven into the soil along the Hackensack River. (Attachments N and PP)

Identify if surface water is used for irrigation of commercial food or commercial forage crops, watering of commercial livestock or commercial food preparation.

Documentation indicating the existence of surface water withdrawals used for the irrigation of commercial food/livestock was not found in the files reviewed.

Discuss the potential for surface water contamination, include any additional information concerning the surface water route.

The potential for surface water contamination exists. The facility has an approximately 1.4 million-gallon fuel oil storage capacity and is located along the Hackensack River. Spills during the transfer of oil from tank trucks could impact the Hackensack River. A May 1989 NJDEP/DWR inspection noted contaminated storm water entering the Hackensack River. Currently the oil storage areas and the storm water collection area are bermed and marine transfer of fuel oil has ceased. (Attachments H, I, N, PP and Map-1)

B. SENSITIVE ENVIRONMENTS

Identify all sensitive environments, including wetlands, along the 15 stream-mile pathway from the site:

There are numerous wetlands along the entire 15 stream-mile pathway. Total wetland frontage is approximately 14 miles.

Environment	Surface Water	Flow
Type	Body	(cfs)
* E2EM, E2FL, PF01 PSS1 PEM	Hackensack River	100-1,000

E2FL Newark Bay NA

* E2EM = Estuarine intertidal emergent wetlands

E2FL = Estuarine intertidal flat wetlands
PFO1 = Palustrine forested broad leaved deciduous wetlands

PSS1 = Palustrine scrub/shrub broad leaved deciduous wetlands

PEM = Palustrine emergent wetlands

(Maps-6A-6F)

PART VI: AIR ROUTE

Discuss observed or potential air release.

No incidents of observed release to the air from on-site operations were found in the files reviewed. There is a potential for release due to the large quantities of No. 2 fuel oil stored as well as kerosene and other petroleum products. (Attachments I and W)

Populations that reside within 4 miles of the site.

Distance	(miles)		Population
0 -	1/4	•	2,996
1/4 -	1/2		4,585
1/2 -	1		15,261
1 -			53,572
2 -	3		98,135
3 -	4		137,873
		Total	312,422

(Attachment KK)

Identify sensitive environments and wetland acreage within 4 miles of the site.

An area of documented rare and endangered species habitat is located between 1 and 2 miles southwest of the site. Other areas of rare and endangered species habitat are located approximately 2 miles south of the site along the Hackensack River and approximately 3 miles to the west along the Hudson River and approximately 4 miles southwest in the Hackensack Meadowland and Berry's Creek area. Rare and endangered species utilizing habitats within the area include: the bog turtle, Clemmys muhlenbergii; sandpiper, Batramia longicauda; pied-billed Podilymbus podiceps; yellow crowned night-heron, Nyctanassa <u>violaceus</u>; American bittern, <u>Botaurus lentiginosus</u>; harrier, Cirus cyaneus; least tern, Sterna antillarum; sedge wren, Cistothorus platensis; and the grasshopper sparrow, Ammodramus savannarum. (Attachments II, JJ and Maps-6A-6F)

The site is located within an area of estuarine intertidal flat wetlands encompassing approximately 2 acres. There are approximately 9.0 acres of wetlands within 1 mile of the site which includes palustrine emergent and palustrine open water wetlands. Wetland acreage within 4.0 miles of the site can be found below.

<u>Distance</u>	Type of environment	Wetland acreage
0-1 mile	* E2FL, PEM POW	Approximately 9
1-2 miles	E2FL, PEM, PFO1, PSS1, PSS, L1OW, POW, R1BB, R1FL, R1OW	Approximately 400

<u>Distance</u>	Type of environment	<u>Wetland acreage</u>
2-3 miles	PFO1, PSS1, PEM, E2EM, E1OW, R1FL, E2SS1, L1OW	Approximately 600
3-4 miles	E2EM, E1OW, PFO1, PEM, PSS1, POW, R1FL, R2OW	Over 700 acres

Most of the wetland acreage is located south of the site and is associated with the Hackensack River and Hackensack Meadowlands.

E10W = Estuarine subtidal open water E2EM = Estuarine intertidal emergent

E2SS1 = Estuarine intertidal broad leaved deciduous scrub/shrub

L10W = Lacustrine limnetic open water

PEM = Palustrine emergent

PFO1 = Palustrine forested broad leaved deciduous

POW = Palustrine open water

PSS1 = Palustrine scrub/shrub broad leaved deciduous

PSS = Palustrine scrub/shrub R1BB = Riverine tidal beach/bar

R1FL = Riverine tidal flat

R10W = Riverine tidal open water

R2OW = Riverine lower perennial open water

(Maps-6A-6F)

Identify all land resources (commercial agriculture, silviculture or recreation) within 4 miles of the site.

The site is located within a highly urbanized area. There is no commercial agriculture or silviculture within 4.0 miles of the site. However, numerous municipal and or county parks are located within 4.0 miles of the site. A small park is located approximately 2,000 feet southwest of the site along Washington Avenue in Hackensack. Columbus Park is located approximately 0.5 mile west of the site and is located along Wesley Street in Hackensack. A portion of Foschini Park in Hackensack is located approximately 1.0 mile to the north. Other major recreational areas located within 4.0 miles include Overpeck County Park (1.5 mile east), Rochell Park (Rochell Park), Englewood Golf Club (Englewood), Mackay Park (Englewood), Argone Park, Windsor Park Milton, Votee Park and Clarence W. Brett Park all located in Teaneck. (Map-1 and Map-4)

PART VII: SOIL EXPOSURE

Describe soil type. Include soil series, makeup of the soil and permeability of the soil.

On-site soils consist of urban land complex (UR) which consists of filled or cut areas predominantly covered with an impervious layer or buildings. Soil below this fill layer would be consistent with soils boarding rivers and streams. In an April 12, 1961 aerial photograph the site was vacant land with large areas of pooled water. The site was subsequently filled between 1961 and 1971. (Attachment LL)

Briefly discuss contaminants identified in the soil. Include sampling date, sampling agency or company, sample locations, depth and contaminant level. Be sure to identify if the sample was collected on a residential property, school, daycare center, workplace, terrestrial sensitive environment or resource. State whether Level 1 or Level 2 contamination is present.

On May 14, 1987 representatives of the NJDEP/DWR collected six surficial soil samples at Lancia Oil from an area that was excavated due to petroleum contamination. Sample 43111 was a surface sample collected 20 feet from an old gas pump, Sample 43112 was collected at a depth of 6 inches in a sand area, Sample 43113 was a surface sample collected approximately 18 feet from a concrete pad, Sample 43114 was at the same location as 43113 at a depth of 6 inches and Samples 43115 and 43116 were collected approximately 39 feet from the concrete pad at 0 and 6 inches, respectively. The samples were analyzed for petroleum hydrocarbons (PHCs) by the New Jersey Department of Health Laboratory. PHC concentrations for the samples were as follows:

SAMPLE #	PHC (ppm)
* 43111	16,943
43112	504
43113	4,635
43114	420
* 43115	42,380
* 43116	18,887

* = exceed NJDEPE PHC Soil Cleanup Criteria of 10,000 ppm (Attachment O)

No documentation regarding any further soil sampling was found in the files reviewed.

Total area of surficial contamination (square feet): Unknown

The site encompasses an area of approximately 1.4 acres, with the majority of it being paved. The area of surficial contamination can not be determined.

If no soil sampling has been conducted, discuss areas of potentially contaminated soil, areas that are visually contaminated or results from soil gas surveys.

Currently the majority of the site is paved. Areas of potential contaminated soil include an area east and southeast of the control building, and between the two large #2 fuel oil AGSTs. In a March 25, 1978 aerial photograph of the site these areas appeared darker which could have resulted from product spillage or ponded water. Currently the control area is covered with pavement and or concrete. Past NJDEPE inspections have noted oil spillage in the product transfer area as well as a drum storage area located in the northwest corner of the site. An NJDEP/DWR inspection conducted on May 2, 1989 noted oil-stained gravel in the southeastern portion of the site as well as an oil sheen on storm water located in this area. Oil spills and staining were observed during an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, in the storm water retention area, the Fuel Oil Loading Area and near the northwest corner of the office building. (Attachments N and PP)

Identify if any commercial agriculture, silviculture, livestock production or grazing are present on or within 200 feet of the site.

The site is located in an industrialized area. There is no commercial agriculture, silviculture, livestock or grazing at or within 200 feet of the site. (Map-1)

Number of people that occupy residences or attend school or day care on or within 200 feet of the site: 0
Number of workers on or within 200 feet of the site: less than 50

Does a subsurface gas threat exist? (Y/N): N If so, discuss the threat (include if in homes or occupied building).

PART VIII: DIRECT CONTACT

Describe accessibility of the site (fencing, site security, evidence of unauthorized entry).

The site is surrounded by a 6-foot chain link fence on three sides with the Hackensack River forming the eastern boundary. The site would not be accessible to the general public after normal working hours. (Attachments I and PP)

Number of on-site employees: 2 (per New Jersey Right to Know database) During an April 27, 1994 NJDEPE/DPFSR Office of Site Assessment PSA, Mr. Lancia stated that operations have been greatly reduced and only three people (one full time and two part time) are currently employed at the facility. (Attachments L and PP)

PART IX: FIRE AND EXPLOSION

Discuss all incidents on site which have involved a fire or explosion. Indicate the date of the incident and the materials involved.

On February 26, 1988 the City of Hackensack Fire Department responded to a fire at the site. A pump located in a pump area had overheated which ignited kerosene vapors. The fire was confined to the pump, motor and hoses. The area was diked with speedy dry and the health department was notified. Numerous inspections conducted by the City of Hackensack, Bureau of Fire Prevention have noted violations concerning deficiencies regarding extinguishers, and proper lighting. During a November 5, 1980 Bureau of Fire Prevention inspection, Lancia Oil was issued a Notice of Hazardous Condition which required Lancia Oil to remove a 275-gallon fuel oil tank which fed a furnace as well as to properly install fire extinguisher in a garage area and on a loading platform. In addition a March 3, 1988 inspection noted a kerosene spill. No further documentation regarding the spill was found in the files reviewed. (Attachments MM, NN and 00)

Discuss site conditions which indicate a potential exists for fire or explosion (reactivity, incompatibility, ignitability, storage practices, container condition).

The potential for fire on site exists. Large quantities of flammable liquids are stored on site, and past inspections have noted poor housekeeping. (Attachments N, NN and OO)

PART X: ADDITIONAL CONSIDERATIONS

Discuss evidence of wildlife or vegetation that has been or could be potentially impacted by on-site operations. Include areas exhibiting stressed vegetation or damage to wildlife.

No evidence of wildlife or vegetation being impacted from on-site operations was found in the files reviewed. However, the potential for impact exists. Lancia Oil is located adjacent to the Hackensack River and receives and stores large quantities of fuel oil. Spills during loading/off loading would have the potential to enter the Hackensack River and impact flora and fauna associated with the river.

Determine if a contaminant on site displays bioaccumulative properties. Name all bioaccumulative substances that may impact the food chain.

Soil samples collected were only analyzed for PHCs. Fuel oil and kerosene do not display bioaccumulative properties.

Discuss observed or potential damage to off-site property. Consider migration routes from the site to an off-site property via soil, air or runoff.

Contaminated storm water was observed entering the Hackensack River on May 2, 1989. This and past storm water releases would have the potential to impact properties downstream of the facility. The majority of the site is paved and there would be little potential of damage to off-site property via soil or air. The AGST fuel oil tanks are bermed. (Attachments N and PP)

PART XI: PREVIOUS OR ONGOING REMEDIAL ACTIONS

Discuss for each medium or area of concern all previous and ongoing remedial activities at the site. Include why initiated, type of action, date and present status.

There have been no remedial activities with regards to ground water or air. As a result of NJDEP enforcement actions, Lancia Oil constructed a berm which would prevent storm water from entering the Hackensack River. On January 14, 1992 the NJDEP/DWR issued to Lancia Oil a Notice of Violation (NOV) and directed Lancia Oil to Lancia Oil a Notice of Violation the facility berm along the Hackensack River and to construct a berm in the Truck Unloading Area so as to prevent spillage from entering an unlined retention area. A follow-up inspection conducted on February 25, 1992 confirmed that these activities had taken place. Remediation of soil has been limited to areas of spillage noted during NJDEP inspections. In accordance with a DPCC and DCR plan which was approved on June 15, 1993, Lancia Oil will among other actions construct secondary containment around the load/unload areas and provide leak protection for piping in the Fuel Oil Loading Areas. (Attachments I, R and RR)

PART XII: ENFORCEMENT ACTIONS

Type of enforcement activity: Notice of Violation (NOV)
Issuing agent: USEPA Region II
Date: August 4, 1981
Description of violation: On October 15, 1980 the USEPA inspected Lancia Oil and noted that Lancia Oil failed to implement a Spill Prevention Control and Countermeasure (SPCC) plan per 40 C.F.R. part 112 of the regulations.

Follow-up activity: A civil penalty of \$10,000 was assessed. A Consent Agreement and Order was entered into on August 1, 1984 between Lancia Oil and the USEPA in which Lancia Oil agreed to submit and implement a SPCC Plan and pay a civil penalty of \$2,500. (Attachment QQ)

Type of enforcement activity: Order Issuing agent: NJDEP/Division of Environmental Quality Date: December 21, 1981 Description of violation: Lancia Oil operated one 800,000gallon and one 400,000-gallon fuel oil storage tank without first obtaining a permit.

Follow-up activity: Lancia Oil was ordered to cease the violation, and subsequently submitted a permit application on March 26, 1982. (Attachments V and VV)

3. Type of enforcement activity: NOV
Issuing agent: NJDEP/Division of Water Resources (DWR)
Date: April 22, 1987
Description of violation: An inspection conducted by the
NJDEP/DWR on April 15, 1987 noted spillage of oil products and
general poor housekeeping resulting in the discharge of
contaminated materials to surface and ground water.

Follow-up activity: Lancia Oil was directed to cleanup spill materials. (Attachment RR)

4. Type of enforcement activity: Directive Issuing agent: NJDEP/DWR Date: June 10, 1987

Description of violation: NJDEP/DWR inspections conducted on April 15, May 12 and May 20, 1987 noted oil spillage in the product transfer and drum storage areas resulting in the illegal discharge of contaminated storm water to surface and ground water. The inspections also noted that Lancia Oil failed to maintain a SPCC Plan.

Follow-up activity: Lancia Oil was directed to cease illegal discharges, clean and properly dispose of all contaminated materials and obtain a NJPDES Discharge to Surface Water permit. (Attachments N and SS)

5. Type of enforcement activity: NOV
Issuing agent: NJDEP/DWR
Date: May 2, 1989
Description of violation: An investigation conducted at Lancia
Oil on the above date noted an oil sheen or collected storm
water which was caused by oil-stained gravel.

Follow-up activity: Lancia Oil was directed to remove oilstained gravel. An inspection conducted on August 24, 1989 noted that the stained gravel had been removed. (Attachments N and RR)

6. Type of enforcement activity: NOV
Issuing agent: NJDEPE/Division of Facility Wide Enforcement
(DFWE)

Date: January 14, 1992

Description of violation: An inspection by the NJDEPE/DFWE was conducted to determine if dikes had been constructed to prevent any possible storm water runoff into the Hackensack River. At the time of the inspection an 8-foot opening was noted along the river side.

Follow-up activity: Lancia Oil was instructed to close the opening and install a berm along the concrete unloading area to prevent runoff to the adjacent ground.

A follow-up inspection conducted on February 25, 1992 revealed that the 8-foot opening was closed and the berm along a concrete loading area was installed. (Attachments N, R and RR)

PART XIII: CONCLUSIONS AND RECOMMENDATIONS

Be sure to list each area of concern and state whether further remediation is required.

Lancia Oil Company, Inc. has operated on site as a bulk fuel oil storage and transport facility since approximately January 1971. No. 2 fuel oil is stored in a 400,000-gallon and an 800,000-gallon AGST; however, the 400,000-gallon AGST is currently not in service. Currently Lancia Oil receives fuel oil via tank truck since marine shipment of fuel oil via barge ceased approximately one year ago. In addition to No. 2 fuel oil, kerosene and diesel fuel are stored The 15,000-gallon kerosene AGST is located within a cinder block and earthen bermed area where the bulk storage tanks are located. Diesel fuel is stored in a 2,000-gallon UST located along the southern fence line; however, this tank is currently no longer in use. Several old drums were noted in separate areas an April 27, 1994 NJDEPE inspection; however, consolidated drum storage area is maintained. Past NJDEPE inspections have noted oil spills and sloppy housekeeping.

During an April 27, 1994 NJDEPE/DPFSR, Office of Site Assessment PSA, oil spills and staining were noted in the Fuel Oil Loading Area, the storm water retention area and near several old drums located near the northwest corner of the office building.

The Fuel Oil Loading, the Truck Unloading and the Kerosene Loading Areas are constructed of concrete; however, they lack adequate secondary containment. Adequate secondary containment should be constructed in these areas. Oil stains noted in the Fuel Oil Loading Area, within the storm water retention area and near the northwest corner of the office building should be remediated along with the improvement of general housekeeping.

Soil sampling should be conducted in the storm water retention area as well as the banks of the Hackensack River to determine if releases have impacted surface water and surface and subsurface soils. The 2,000-gallon UST should be properly registered with the NJDEPE/Bureau of Underground Storage Tanks and properly removed (in accordance with N.J.A.C. 7:26E) if further use is no longer anticipated.

No further action under CERCLA is recommended due to petroleum exclusion. Further remedial action will be under State authority.

Submitted by: Andrew Cyr

Title: HSMS III

NJDEPE, Division of Publicly Funded Site Remediation,

Office of Site Assessment

Date: April 25, 1994

PART XIV: POTENTIALLY RESPONSIBLE PARTIES

NAME

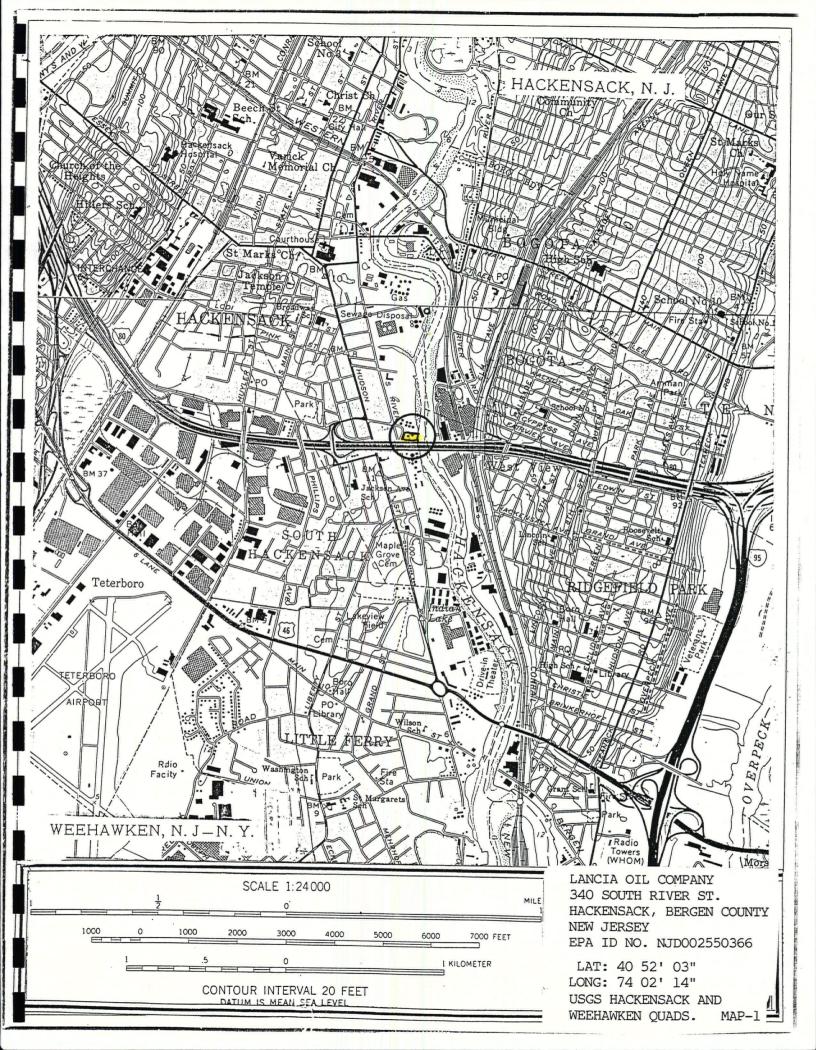
Lancia Oil Company, Inc.

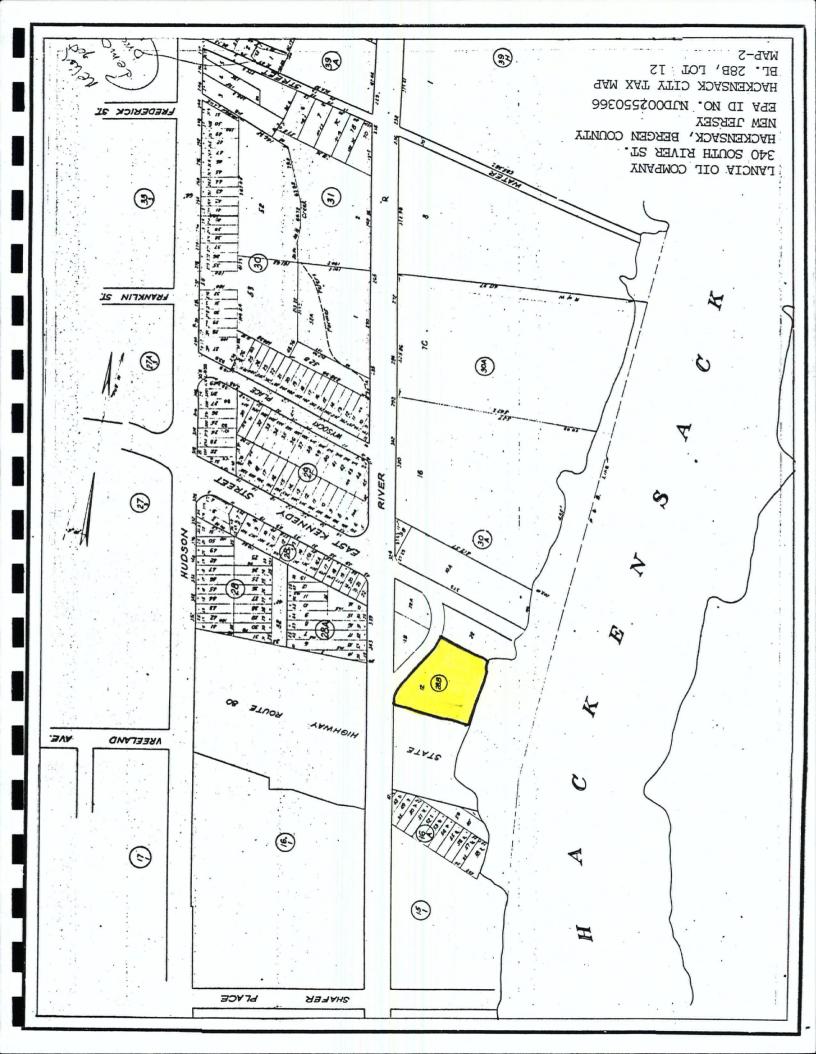
OWNER/OPERATOR/ KNOWN DISCHARGER

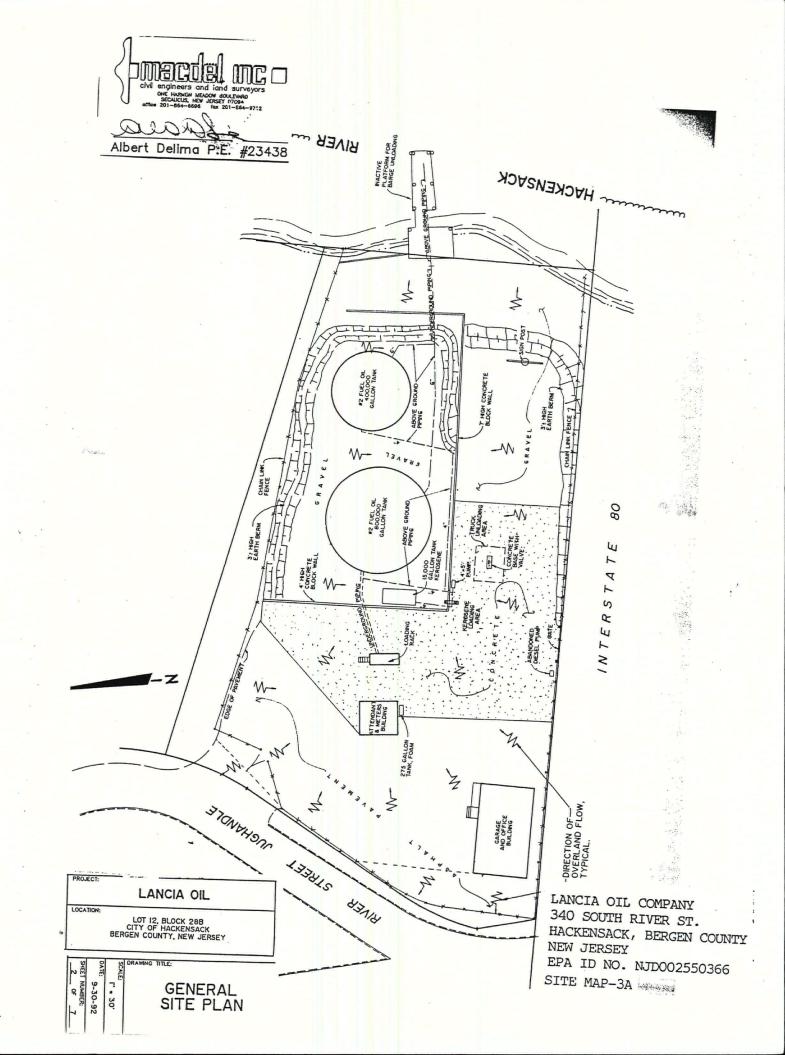
owner/operator/known discharger

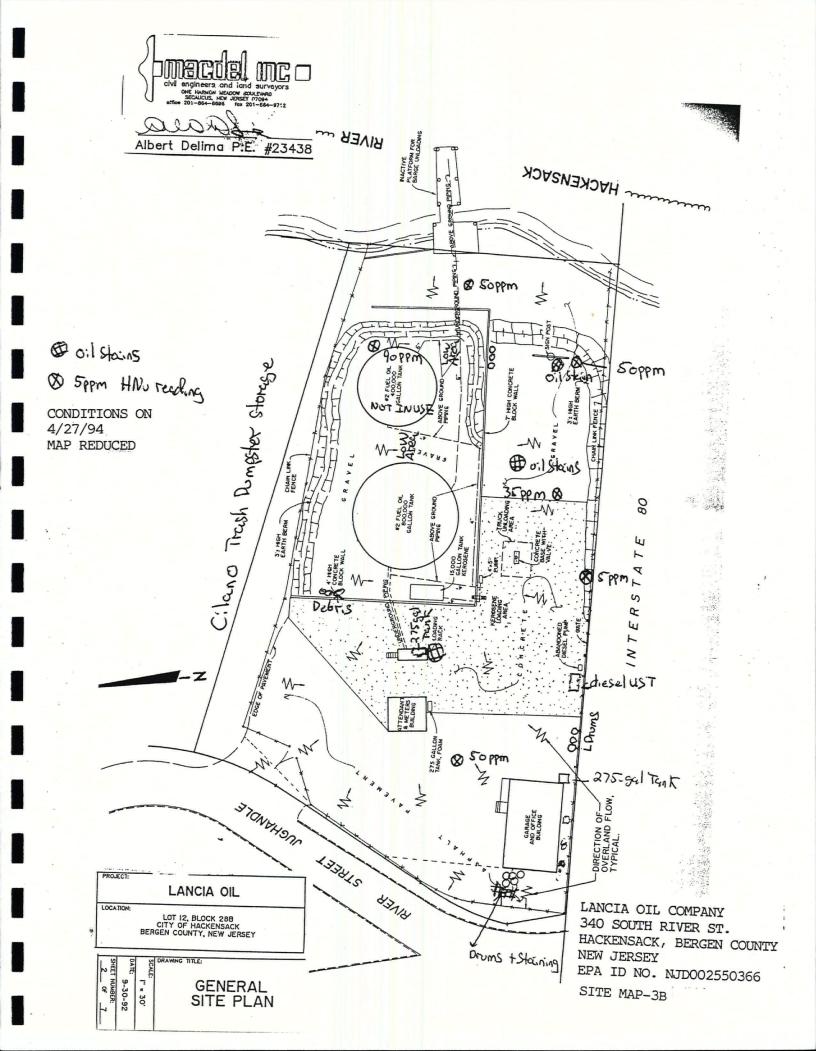
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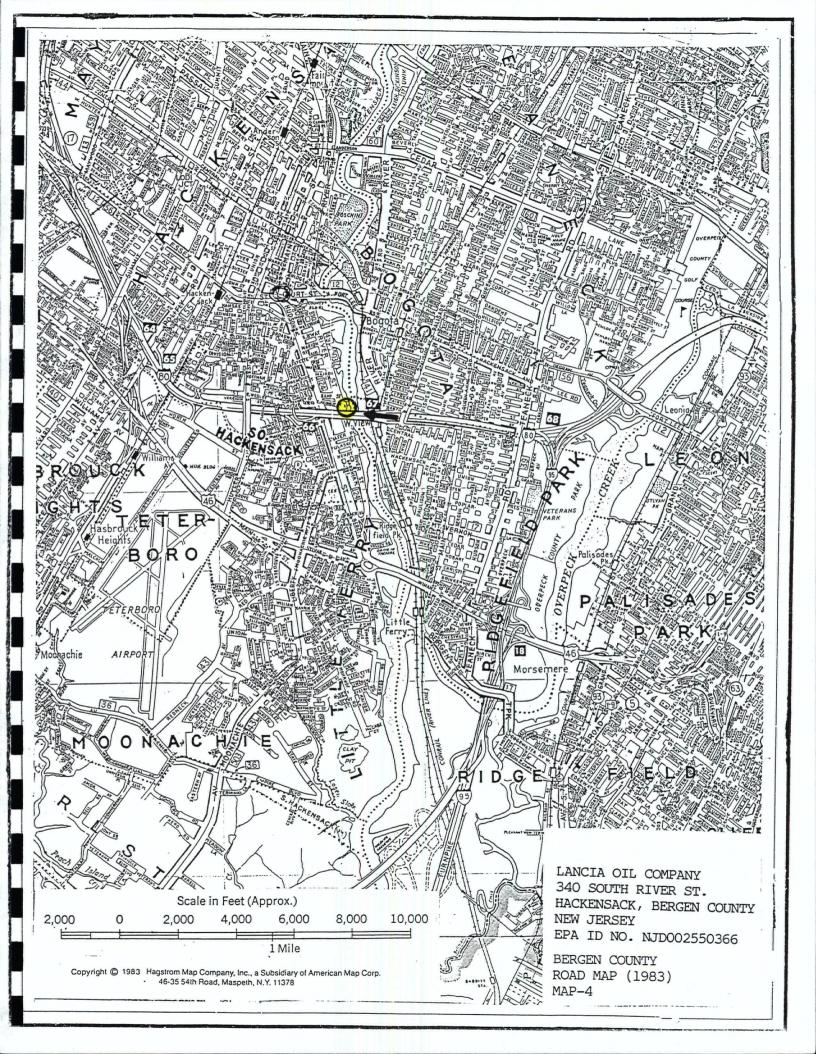
340 South River Street Hackensack, N.J. 07601 MAPS











SUBJECT TO REVISION

LANCIA OIL COMPANY 340 SOUTH RIVER ST. HACKENSACK, BERGEN COUNTY NEW JERSEY EPA ID NO. NJD002550366

WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF:

LATITUDE 405203 LONGITUDE 740214

MAP-5

DRAFT

SCALE: 1:63,360 (1 Inch = 1 Mile)

× 100,000 GPD WATER WITHDRAWAL POINTS DNLY

1 MILE AND 5 MILE RADII INDICATED

PLOT PRODUCED BY:
NJDEPE
WATER SUPPLY ELEMENT
BUREAU OF WATER ALLOCATION
CN-426
TRENTON, NJ 08625
DATE: 03/02/94

× 5317 × 53 0 47 x 2278P 735800 405600 × 535317 × 2035P x 2035P x 5317 × 57821717 x 10492W × 5087 x 1005 W x 5282 × 1011 W × 2094 \$ 2172P x 2100P XZM4P × 4006PS x 2094P x 4041PS × 193558w × 10386W × 5282 x 10459W × 4006PS 2156P × 10127W × 5282 x 5282 *XXIIIPPP 5086 × 1101006PS x 2156P × 40264906234006PS x 10085W × 4006PS × 244066PS × 5198× 2246P × 215 P × 209938 x 10001W ×2451P x 10210W × 203955P × 10184W x 10253W × 23973 × 2082P 2211P x 10253W x 2372P × 10461W × 2092P × 2092P 10070W × 10060W x 10461W × 10427W × 10427W × 10041W x 10427W ×2313P ×2313P x 10427V × 2049P × 10276W 404800 x 2044P x 1181D

SUBJECT TO REVISION

1 of FRELIMINARY SURVEY OF WATER WITHDRAWAL FOINTS WITHIN 5.0 MILES OF 405203 LAT. 740214 LON. (IN ORDER BY SERMIT NUMBER) - 03/02/94 NIMEER NAME SOURCEID LAT LOCID LON LLACC DISTANCE COUNTY MLN DEPTH GEO1 GEO2 CAPACITY 10001W SUN CHEMICAL CORP. WELL #1 3.6 03 GTRB SUN CHEMICAL CORP. WELL #2 3.6 GTRE 10041W NOVEL KNIT #1 T 3.6 0.3 10051W GRANT CHEMICAL COMPANY #1 T 4.8 10060W CARLSTADT - E. RUTHERFORD EGE 4.3 GTRE 10070W INSLLFAB FLASTICS INC. #1 4.3 GTRB 10085W TAKASAGD #1 1.2 GIRB TEFLE EVETH 10117W WELL NO. 1 3.3 GTRB 10127W INTERPLAST UNIVERSAL IND., INC 2.5 WORLD PLASTIC EXTRUDERS INC. 10184W 405014 740413 #1 2.7 GTRB 1021CW THIMANN INC. #1 2.7 GTRB 10253W J. JOSEPHSON, INC. WELL 1 2.3 J. JOSEPHSON, INC. WELL 2 2.5 10276W BENEDICT-MILLER, INC WELL 1 6.0 GTRB 10355W BERGENFIELD BOARD OF EDUCATION WELL 1 3.8 0.3 GTRB BERGENFIELD BOARD OF EDUCATION WELL 2 3.9 GTRB 10386W GOODREN FRODUCTS CORP. WELL 1 3.1 GTRE 10427W MEER CORPORATION WELL 3 U 3.3 GTAB MEER CORFORATION WELL 4 U 3.6 GTRB MEER CORFORATION WELL 5 U 3.8 GTRB MEER CORPORATION WELL 6 U 3.9 GTRB 10459W G.B.R. FABRICS/MAIL RETURNED WELL 2 2.7 10461W CARLTON-COOKE FLATING CORP. WELL 1 2.9 GTRB CARLTON-COOKE PLATING CORP. WELL 2 3.3 GTRE 10492W HNICKERECOKER COUNTRY CLUB WELL 1 4.2 GTRB 1101D FOSTER WHEELER PASSAIC. INC. 4.4 GD 1181D TWP OF NORTH BERGEN MUA TRENCHES 5.3 GTER 2035P ARCOLA COUNTRY CLUB . 740515 S 4.8 GTEB ARCOLA COUNTRY CLUB S 4.8 GTRB ARCOLA COUNTRY CLUB FOND U 4.5 GTRB ARCOLA COLINTRY CLUB FOND U 4.5 GTRB 2044P GRAND UNION CO. 6.7 GTRB 2049P SIKA CORPORATION 5.7 GTRB 2055P GANES CHEMICAL, INC. 3.7 GTEB GANES CHEMICAL. INC. F 3.9 GTFB GANES CHEMICAL, INC. 3.8 SPINNERIN YARN CO., INC. 0.6 GIRA 6E SPINNERIN YARN CO., INC. 0.6 GTRB SPINNERIN YARN CO., INC. 0.5 0.3 GTRB SPINNERIN YARN CO., INC. U 0.6 GTRB SPINNERIN YARN CO., INC. U 0.6 GTES SPINNERIN YAFN CO., INC. 0.6 GTRE ZUGA LLME FRIER CONFAIN 2.6 0.3 GTRUB LOWE PAPER COMPANY 4600096° 2.6 OB. GTEDB LOWE PAPER COMPANY F 2.6 GTROB LOWE PAPER COMPANY 2.6 0.3 GTRDB LOWE PAPER COMPANY 2.6 GTRDE 2092F GIVAUDAN-ROURE CORPORATION 5.6 GTRB GIVALDAN-ROURE CORPORATION 5.6 GTRB 2073P ORVAL KENT FOOD COMPANY, INC. 4.5 0.3 GTAB DRYAL KENT FOOD COMPANY, INC. 4.4 0.3 GIRB ORVAL KENT FOOD COMPANY, INC. 4.5 0.3 GTER D.A.K. MANUFACTURING CORP. 4.7 GIRB

4.7 03

4.7 03

GTAB

GTEA

D.A.K. MANLFACTURING CORP.

D.A.K. MANLFACTURING CORP.

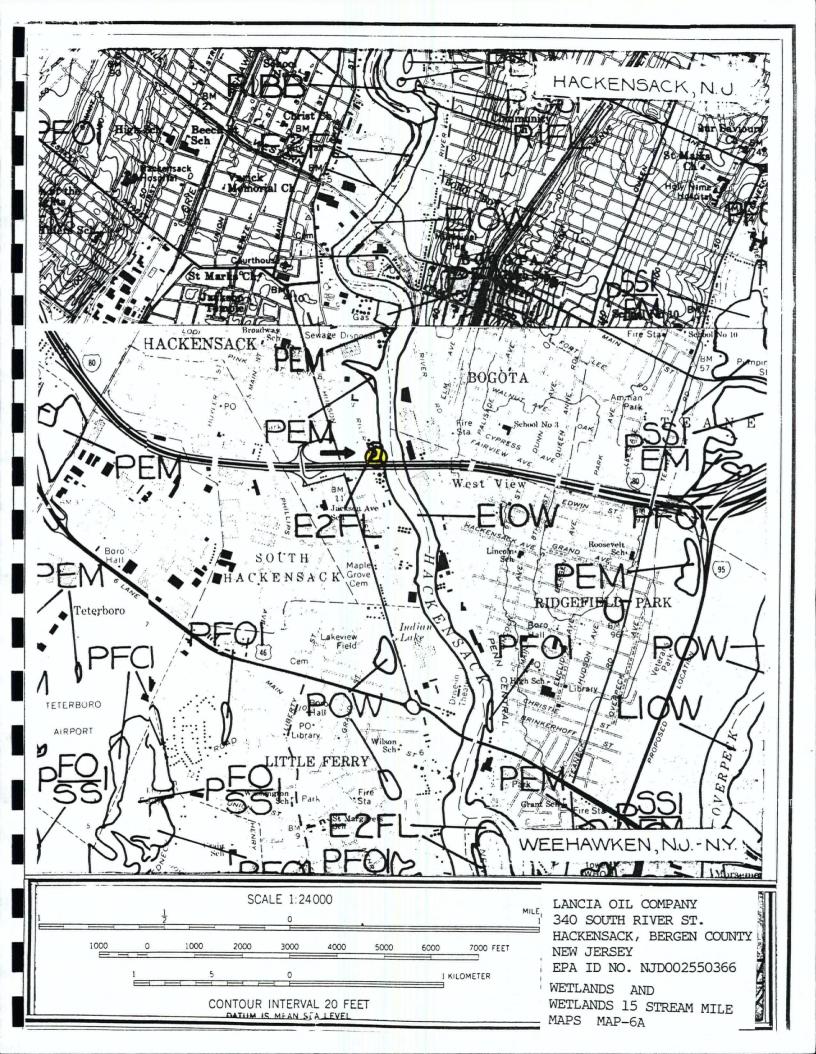
2 of FRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 405203 LAT. 740214 LON. (IN ORDER BY PERMIT NUMBER) - 03/02/94

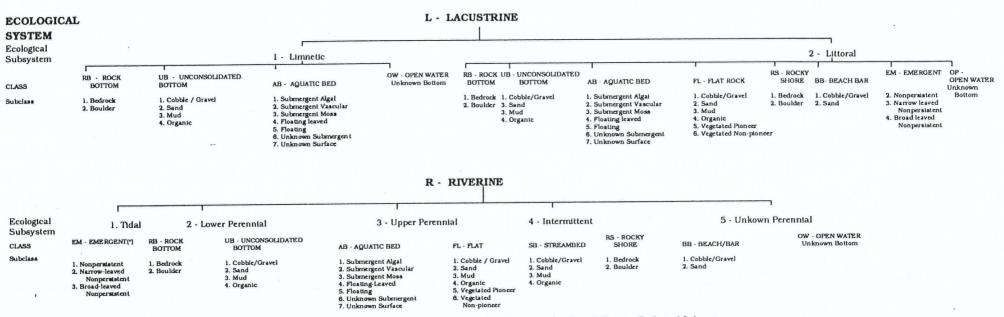
Page	2 of FRELIMINARY SURVEY OF WAT	ER WITHDRAWAL FO	INTS WITHIN	5.0 MILE	S OF 405	203 LAT	. 740214 L	ON. (IN	ORDER	BY FEF	MIT NUM	BER) -	03/02/94
NUMBER	NAME	SOURCEID	LOCID	LAT	VEL	LLACC	DISTANCE	COLMIY	MLIN	DEFTH	GEU1	Ά2	CAPACITY
	D.A.K. MANUFACTURING CORP.	2605037	4	405353	740657	1-	4.6	Q3	11	250	GIRB		60
2100P	MARCAL PAPER MILLS, INC.	4600008	1	405412	740752	F	5.5	0.3	11	308	GTRB		150
	MARCAL PAPER MILLS, INC.	4600009	2	405412	740752	F.	5.5	O3	1.1	330	GTEB		280
	MARCAL PAPER MILLS, INC.	4600010	3 .	405412	740752	F	5.5	03	11	325	GTR8		250
	MERCAL PAPER MILLS, INC.	4600011	4	405412	740732	F	5.5	63	11	262	GTRE		30
	MARCAL PAPER MILLS, INC.	4600012	5	405412	740752	F	5.5	OB	11		GTRE		125
	MARCAL PAPER MILLS, INC.	4600013	6	405412	740752	F	5.5	03 -	11		GIRS		300
2124P	CLINTON INN MOTOR HOTEL	2602787	1.	405522	735757		5.3	0.3	61	106	GTRB		400
2.1.2.11	CLINICAL INN MOTOR HOTEL	2604394	2	405518	735754	S	5.3	03	61	107	GTRB		175
2156P	BERGEN COUNTY PARK COMMISSION	POND	1	405300	740000	S	2.2	03	60	13	GOSD		750
21000		2604559	WELL 1	405210	735940	F	2.2	03	29	430	GTRE		250
	EEREEN COLNTY PARK COMMISSION					F	2.0	03	45	485	OTRB		125
	REAGEN COUNTY PARK COMMISSION	2604300	WELL 2	405105	740020				57	400	GYRB		300
2172P	PARK BO ASSOCIATES	2604234	1	405408	740630	S	4.4	03					300
	PARK 80 ASSOCIATES	2604235	2	405410	740629	3	4.4	03	57	400	OTEO		0
	PARK BO ASSOCIATES	2605301	3	405410	740629	S	4.4	03	57	300	GTRB		Ü
	PARK 80 ASSOCIATES	2604104	4	405412	740600	8	4.1	03	57	300	GTRB		7 20 20
2211F	HENKEL FROCESS CHEMICALS, INC.	4600125	1CANCELLED	405000	740500		3.4	03	05	170	GOSD		600
22447	ENGLEWOOD HOSPITAL ASSOCIATION	4600159	3	405409	735804	F	4.4	03	15	334	GTF .8		50
	ENGLEWOOD HOSPITAL ASSOCIATION	2602436	4	405410	73E812	F	4.3	03	15	300	GTFG		100
	ENGLEWOOD HOSPITAL ASSOCIATION	2604217	5	405412	735809	S	4.3	03	1,5	230	GTRB		200
	ENGLEWOOD HOSPITAL ASSOCIATION	2604489	6	405413	735809	F	4.4	03	15	300	GTRB		200
2246P	FARMLAND DAIRIES INC.	2604169	1	405134	740555	U	3.3	· 03	65	600	GTRB		200
	FARTLAND DAIRIES INC.	2304250	2	405134	740535	U	3.3	03	65	500	GTRB		185
22786	HCKE, INC.	2302273	1	405620	735754	S	6.2	OB	OB -	279	GTRB		250
	HOKE, INC.	2302348	2	405620	735754	S	6.2	03	OB	276	GTRB		250
2313P	FENCO OF LYNDHURST INC.	4600172	1	404845	740714	F	5.8	03	302	267	GTRB		110
	FENCU OF LYNDHURST INC.	4600173	2	404845	740715	F	5.8	0.3	32	313	GTRB		185
	PENCO OF LYNDHURST INC.	2601699	4	404845	740715	F	5.8	03	32	410	GTRE		150
	PENCO OF LYNDHURST INC.	2603804	5	404840	740705	F	5.8	0.3	32	352	GTRB		185
2372P	YOU-HOO CHOCOLATE BEV. CORP.	2602067	1	404946	740350		3.0	03	05	303	GTRB		90
and fail	YOO+OO CHOCOLATE BEV. CORP.	2602933	$\hat{2}$	404946	740350		3.0	03	05	393	GTRB		50
	YOU-HOU CHOCGLATE BEV. CORP.	2603053	3	404946	740350		3.0	03	05	378	GTRE		55
(1)(1)(1)(1)(1)(1)	SANDY ALEXANDER INC	2607737	1	405005	740749	27	5.4	31	02	400	GTRB		150
2397F		2608396	4	405009	740749	8	5.4	31	02	400	GTRB		50
	SANDY ALEXANDER INC			405003	740744	5	5.3	31	02	-15-0-	GTRB		(_/
	SANDY ALEXANDER INC	2608398	2				5.4	31	02		OTRB		
	SANDY ALEXANDER INC	2608397	3	405004	740746	. 5		31	07	220	GTEB		250
24165	DYE-TEX CORP.	4600217	WELL NO 1	405137	740712	F	4.4						
The state of the s	DYE-TEX CORP.	4600218	WELL NO 2	405138	740712	F	4.4	31	07	300	GIRB		350
2431F	FFISTER CHEMICAL, INC.	2600007	FW-2	405036	740035		2.2	3	49	358	GTRB		100
	PFISTER CHEMICAL, INC.	2600011	FW-3	405036	740036	U	2.2		49	327	GTRB		100
	FFISTER CHEMICAL, INC.	OVERFECK CREEK		405034	740038	U	2.2		49		SK		700
4006FS	DINDEE WATER FOWER & LAND CO.	DUNDEE LK/G.S.	G.S. PAPER	405308	740742	T	4.9	03	21		SPPAS		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	MHIFPANY	405208	740727	T	4.6		02		SP		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	CHELTON CO	405208	740702	T	4.2	31	02		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	CKCNITE CO	405143	740712	T	4.4	31	07		SP		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE LIK/MARC	MARCAL CO.	405405	740754	T	5.5	03	11		SEPAS		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	FASSAIC IN	405218	740702.	T	4.2	31	.02		SP		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	TUCK IND.		740704		4.3	31	07		SP		
	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	FANTASUTE		740704		4.2	31	02		SF		
400999	KALAYA CHEMICAL, INC.	PASSAIC RIVER			740745		4.8	0.3	21		SPPAS		
4041FS	STEPAN CHEMICAL CUMPANY	SADDLE RIVER			740447		3,1		54		SESAD		(2000)
TAAS6	FACKENSACK WATER LOYFANY	4600065	2	405221	740157	-	0.4		04	550	GIRG		180
CALADED	HACKENSACK WATER COMPANY	4600066	3	405248	740143			03	04	350	GTRE		175
	HADKENSACK WATER COMPANY	4600067	4		740145			03	04	235	GTRE		
EVOTO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2600914		405357	740216			03	23	168	GOSD		1530
5087	HACKENEACK WATER COMPANY		1		740216			03	23	190	GCGD		1400
	HACKENSACK WATER COMPANY	2601034	2	-1-7-7-7-7-7-7	/ "Thubia & tal		4. F T		17-pr'911'	478			

Page 3 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 405203 LAT. 740214 LON. (IN ORDER BY PERMIT NUMBER) - 03/02/94

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COLINTY	MLN	DEPTH	GEO1	ŒC2	CAFALITY
	HACKENSACK WATER COMPANY	2603017	ROCHELLE P	405450	740449		4.0	03	54	473	GTRB		200
5111	HACKENGACK WATER CUMPANY	2304815		405612	740032		5.0	03	26	403	GTKB		ico
→ 5198 T	WALLINGTON BURDLEH	2603933	DLL	405131	740619		3.6	OZ.	65	400	GTRB		140
	WALLINGTON BOROLGH	2603934	MAIN AVE	405130	740545	T	3.1	03	65	400	GTRB		150
	WHILLINGTON BOROUGH	2603027	LESTER ST	405125	740710		4.4	03	65	400	GTRB		130
	WALLINGTON BOROLGH	4600075	8	405125	740750		5.0	.03	65	503	GTRE		90
	WALLINGTON BORDLIGH	4600074	50	405125	740750		5.0	03	65	504	GTRE		150
5262	GARFIELD WATER DEPARTMENT	4600113	1	405430	740745	T	5.6	03	11	404	GIFW		100
	GARFIELD WATER DEPARTMENT	4600114	2	405430	740745	T	5.6	0.3	11	358	GTRB		125
	GARFIELD WATER DEPARTMENT	4600118	10	405430	740745	T	5.6	03	11	350	GTRB		150
	GAFFIELD WATER DEPARTMENT	4600119	11	405430	740745	7	5.6	0.3	11	353	GTRB		190
	GARFIELD WATER DEPARTMENT	4600120	12	405430	740745	T	5.6	03	11	350	GTRB		140
	GARFIELD WATER DEPARTMENT	4600121	14	405430	740745	T	5.6	0.3	11	485	GTRB		140
	GARFIELD WATER DEPARTMENT	4600122	16	405430	740745	T	5.6	03	11	400	GTRB		<i>5</i> 0
	BARFIELD WATER DEPARTMENT	4600123	17	405430	740745	T	5.6	0.3	11	353	GTRB		110
	GARFIELD WATER DEPARTMENT	4600124	1	405430	740745	T	5.6	03	11	300	GTRA		150
	BAFFIELD WATER DEPARTMENT	2604016	1A	405256	740651		4.2	03	21	400	GTRB		300
	GARFIELD WATER DEPARTMENT	2604063	2	405312	740648	U	4.2	0.2	21	475	GTRO		150
	GARFIELD WATER DEPARTMENT	2604103	6	405521	735812		5.2	03	21	300	GTFB		150
	GARFIELD WATER DEPARTMENT	2604064	8C	405250	740742		4.9	03	21	405	GTRB		400
	GARFIELD WATER DEPARTMENT	4600115	4	405430	740745	T	5.6	03	11	353	GTRE		90
	GARFIELD WATER DEPARTMENT	4600116	5	405430	740745	T	5.6	03	11	353	GTRB		275
	GARFIELD WATER DEFARTMENT	4600117	8	405430	740745	T	5.6	03	11	354	GIRB		1.55
5317	FAIR LAWN BORGUSH	4600147	2	405549	740724	F	6.3	G3	17	300	GTRB		80
	FAIR LAWN-BORCLIGH	4600151	7	405548	740732	F	6.3	C/3	1.7	7.5	GTRE		200
	FAIR LAWN BOROUGH	4600152	8	405528	740715	F	5.9	03	17	430	GTRE		200
	FAIR LAWN BOROUGH	2307538	25	405505	740612	Ε.	5.8	03	17	370	GTFE		200
	FAIR LAWN BOROUGH	2307539	26	405608	740613	F	5.8	03	17	400	GTRE		100
	FAIR LAWN BOROLGH	2307541	28	405604	740641	F	6.0	03	17	355	GTRB		250
	FAIR LAWN BOROLEH	4600219	5	405545	740722	F	6.2	03	17	300	GTRB		150

Number of Observations: 141





(*) EM - EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perenial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATE	WATER REGIME(1)			WATER CHEMISTRY			SPECIAL MODIFIERS		
Non-Tidal A Temporary H Permanent B Saturated J Intermittently Flooded C Seasonal D Seasonal Well-drained B Seasonal Saturated F Semi permanent O Intermittently Exposed/Perm anent Y Saturated/Permiperm anent/Seasonals U Unknown	Tidal K Artificial R Seasonal Tidal ooded L Subxidal S Temporary Tidal M bregularly Exposed T Semigramments Tidal toposed/Permanent N Regular looded/Temporary P largular U Ucknown		Coastal Salinity 1 Hyperbaline 2 Eubaline 3 Mixobaline (Brackish) 4 Polybaline 5 Masobaline 6 Oligobaline 0 Fresh	Inland Salinity 7 Hypersaline 8 Euraline 9 Mixosaline 0 Fresh	pH Modifiers for all Fresh Water a Acid t Circumpoutal l Alkaline	g Organic n Mineral	MODAs Agricultural Lands, (both row crop and to	ly inundated) s maintained by utilities) Out Farms	

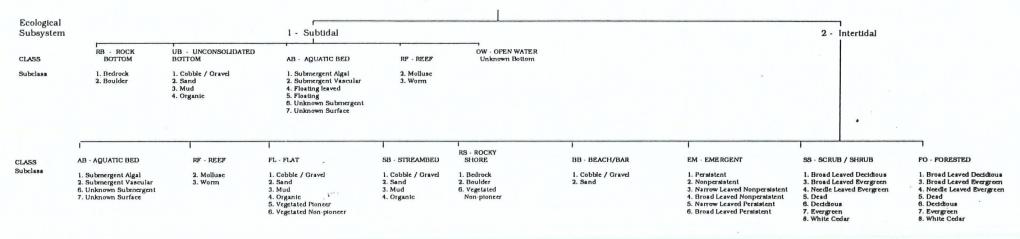
(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

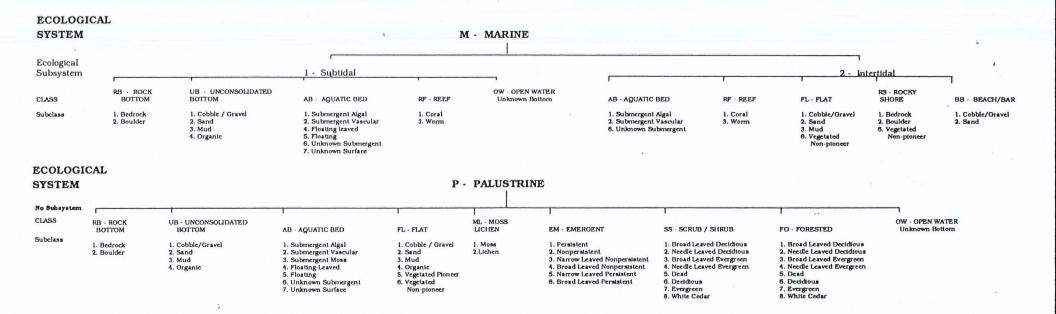
WETLAND LEGEND

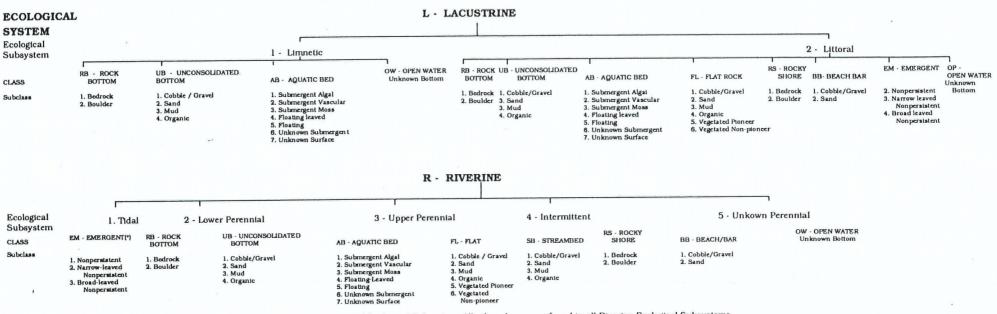
U - Primarily represents upland areas, but may include unclassified wetlands less than 1 acre in area, non photo-identifiable areas and/or unintentional omissions.

ECOLOGICAL SYSTEM

E - ESTUARINE







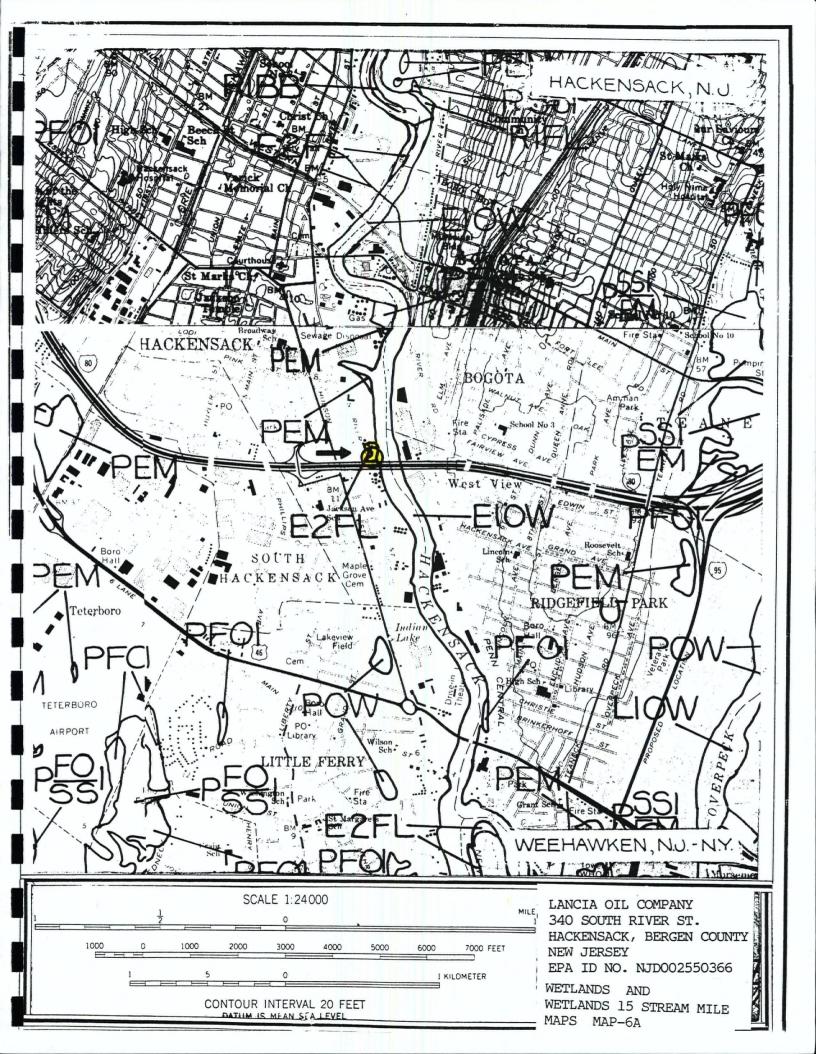
(*) EM - EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perenial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

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In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER	REGIME(1)			WATE	CR CHEMISTRY	SOIL	SPECIAL MODIFIERS	
Non-Tidal A Temporary H Permanent B Saturated J Intermiseouly Flooded C Seasonal C Seasonal Well-drained B Seasonal Saturated F Semipermanent C Intermistently Baposed U Unknown	Tidal K Artificial L Subtidal M irregularly Exposed N Regular P Irregular	R Seasonal Tidal S Temporary Tidal T Semiperaranest Tidal V Permanest Tidal U Unknown	Coastal Salinity 1 Hyperbaline 2 Eubaline 3 Mixebaline (Brackish) 4 Polybaline 5 Meschaline 6 Oligobaline 0 Fresh	Inland Salinity 7 Hypersaline 8 Eusaline 9 Minosaline 0 Fresh	pH Modifiers for all Fresh Water a Acid t Circumputal l Alkaline	g Organic o Mineral	MODAg Agricultural Lands, (both row crop and	ally soundated) as maintained by utilities) Turf Farms aurf cultivation) rface/veg etation disturbed.

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

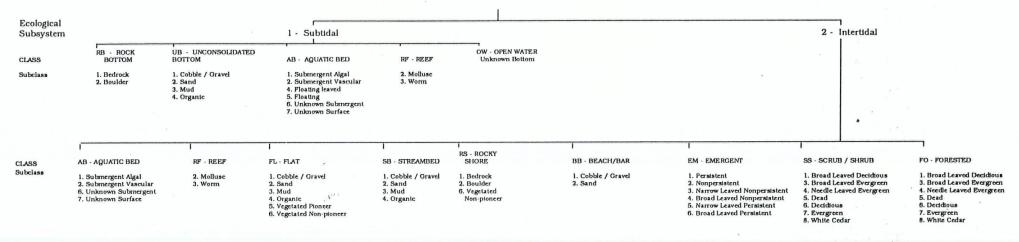


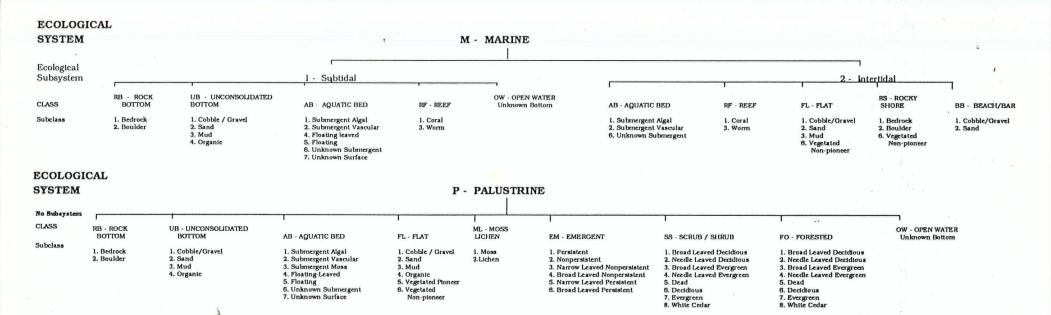
WETLAND LEGEND

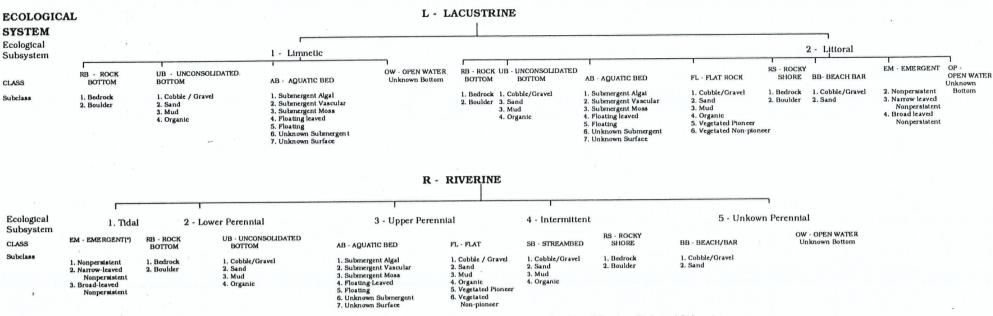
U - Primarily represents upland areas, but may include unclassified wetlands less than 1 acre in area, non photo-identifiable areas and/or unintentional omissions.



E - ESTUARINE







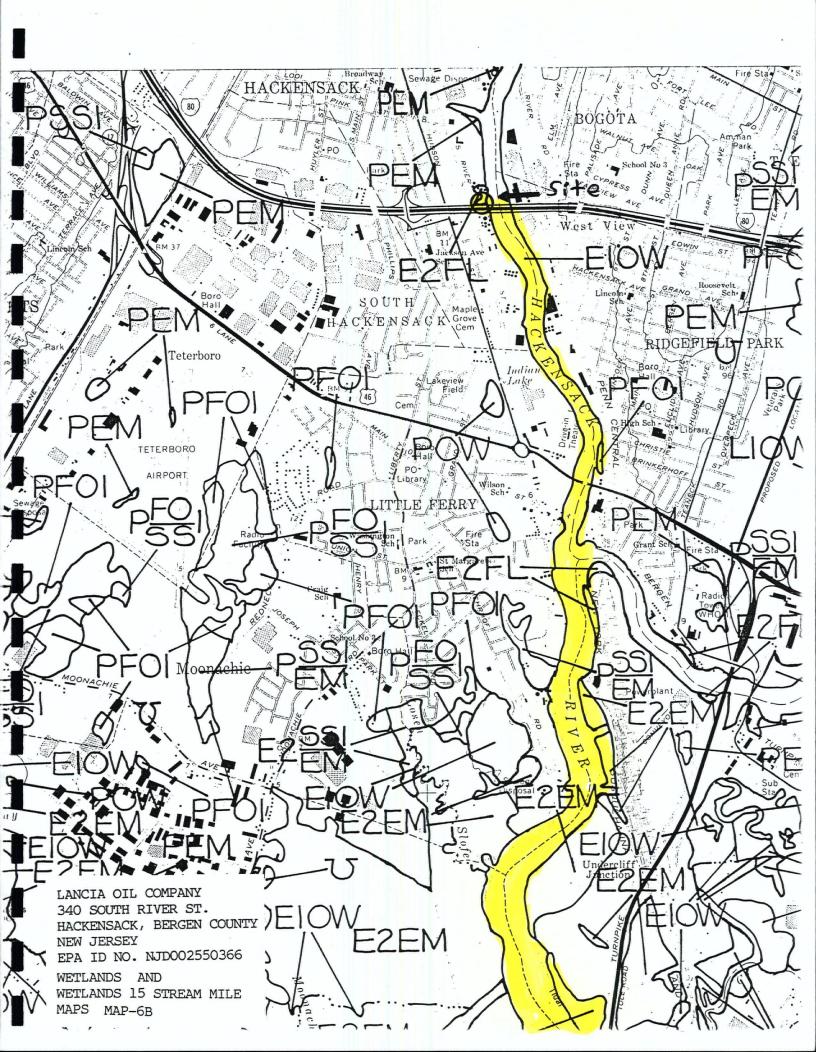
(*) EM - EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perental Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

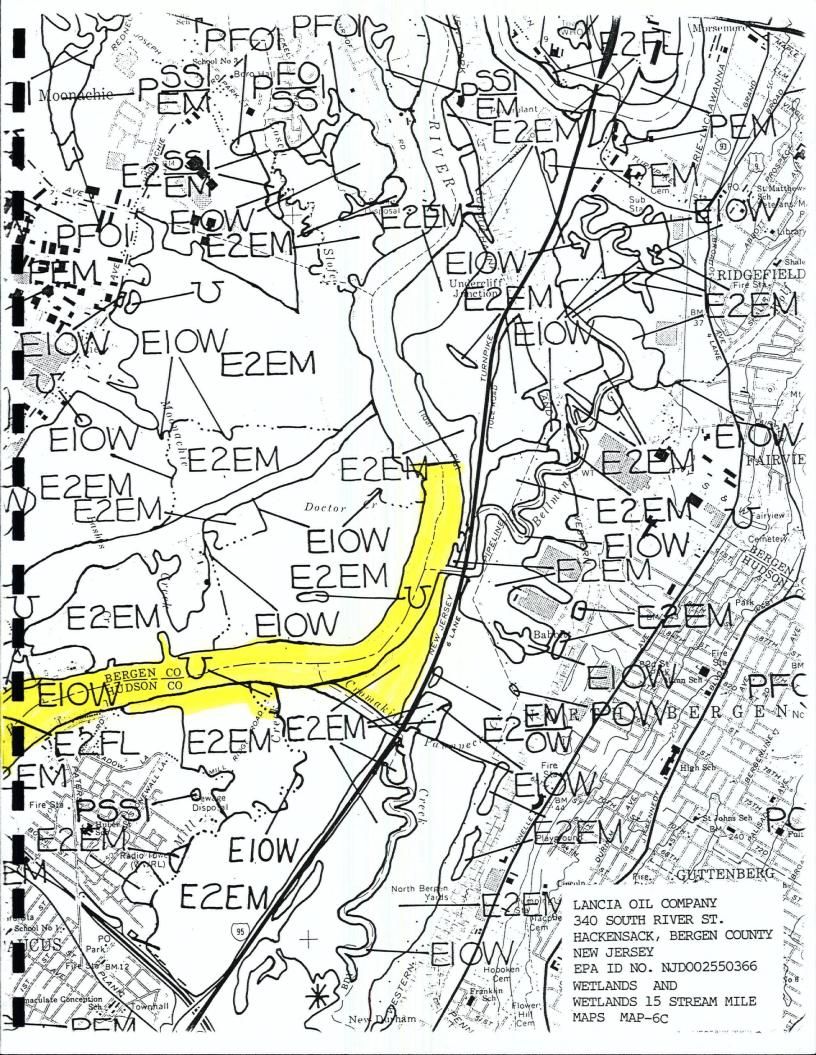
MODIFYING TERMS

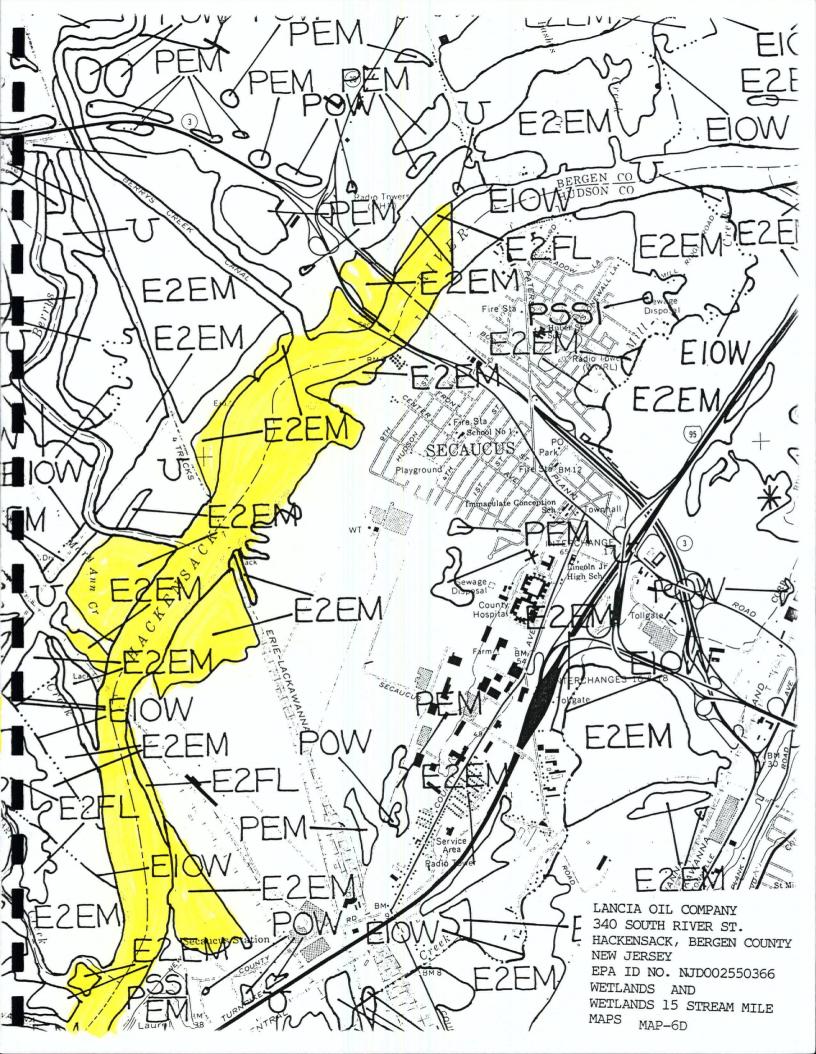
In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

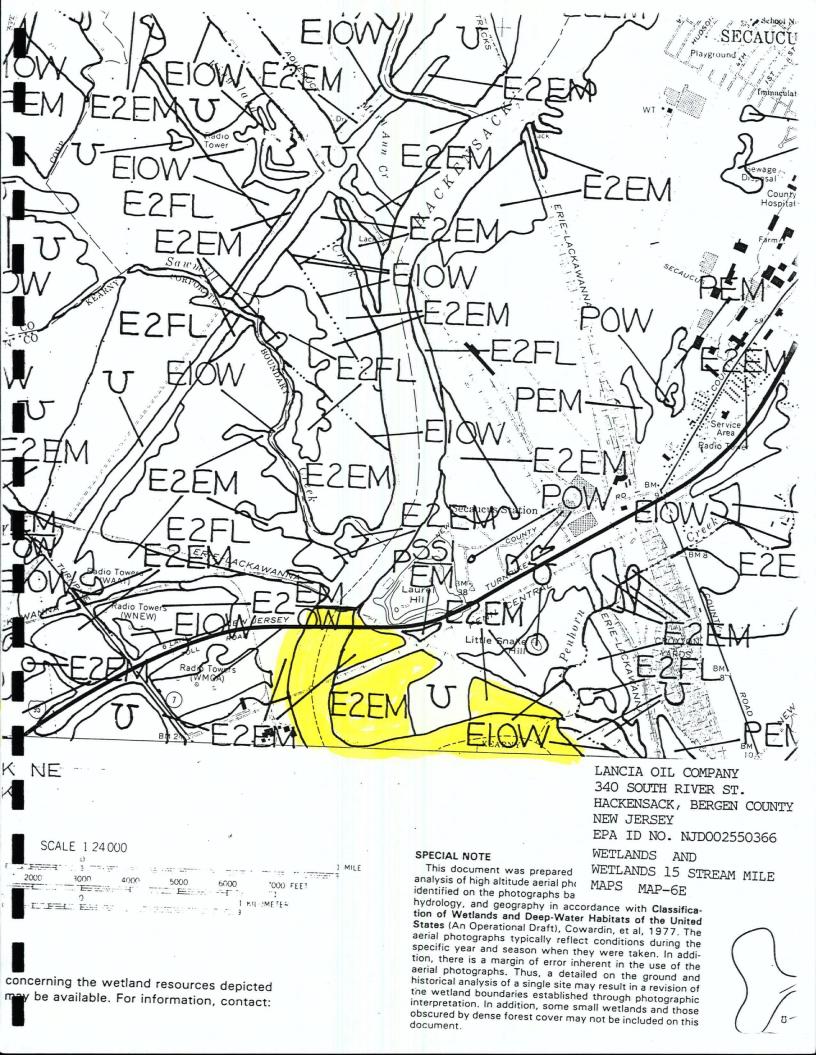
WATER REGIME(1)			WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS	
Non-Tidal A Temporary H Permanent B Saturated J Intermittently Exposed/Permanent C Seasonal Vell-drained B Seasonal Saturated W Intermittently Exposed/Permanent W Intermittently Exposed/Permanent Y Saturated/Semipermanent/Seasonals U Unknown	Tidal K Artificial L Subtidal M Irregularly Exposed N Regular P Irregular	R Seasonal Tidal S Temporary Tidal T Semiper maneest Tidal V Permanent Tidal U Unknown	Coastal Salinity 1 Hyperbaline 2 Eubaline 3 Micobaline (Brackish) 4 Polyhaline 5 Mesobaline 6 Oligohaline 0 Fresh	Inland Salinity 7 Hypersaline 8 Eustine 9 Missue 9 Missue 0 Fresh	pH Modifiers for all Fresh Water a Acid t Circumpoutal l Alkaline	g Organic n Mineral	MODAs Agricultural Lands, (both row crop and to	lly inundated) s maintained by utilities) Furf Farms arf cultivation) face/vegetation disturbed.

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

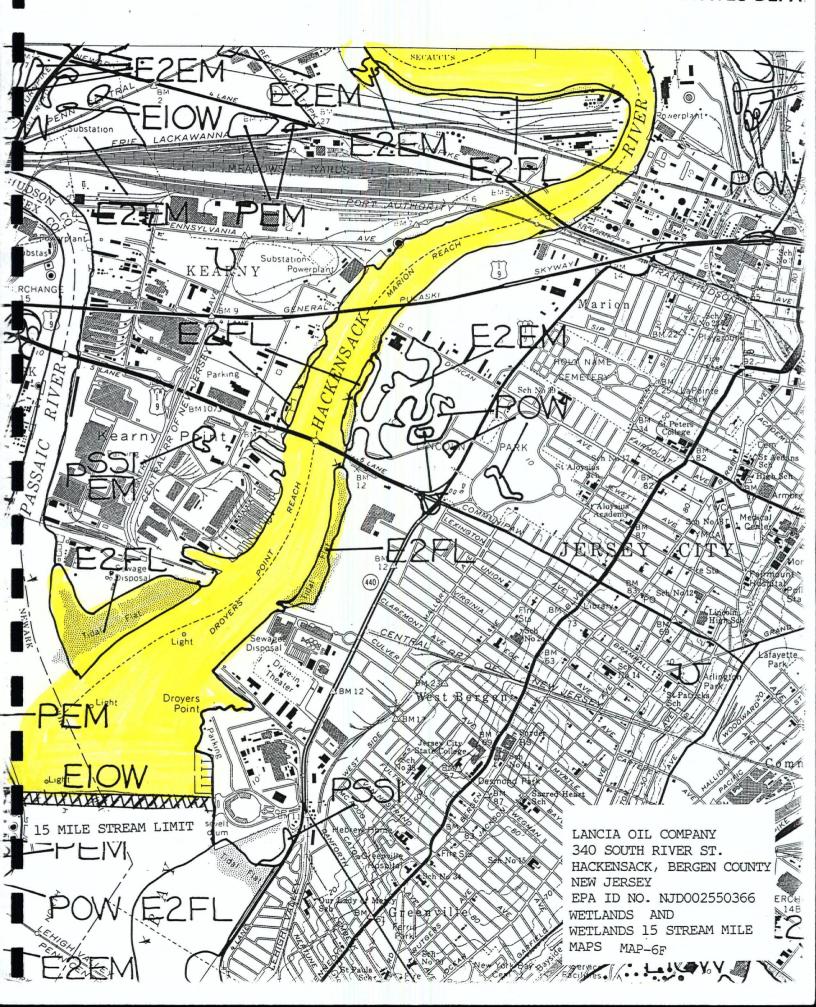








UNITED STATES DEPA



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

CITY OF HACKENSACK, NEW JERSEY BERGEN COUNTY

PANEL 2 OF 2

(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER 340039 0002 B

EFFECTIVE DATE: DECEMBER 1, 1982

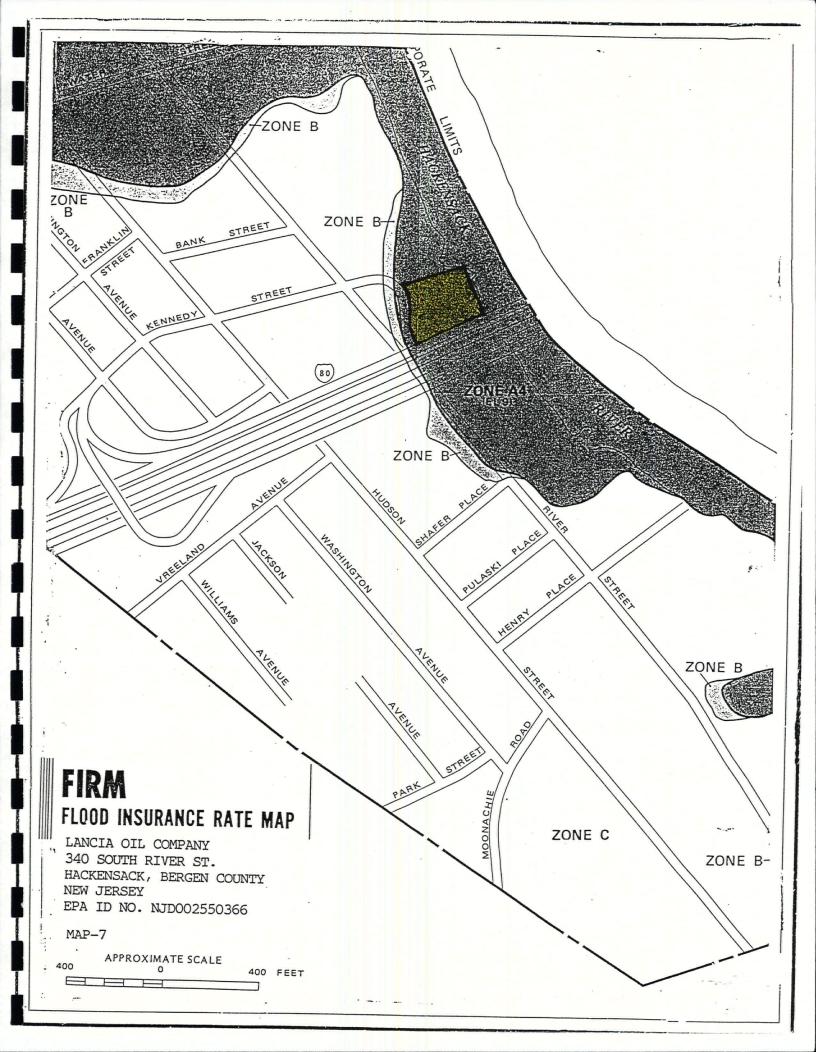
Federal Emergency Management Agency

KEY TO MAP

500-Year Flood Boundary	70150
100-Year Flood Boundary	ZONE B
Zone Designations*	ZONE ANI
	_ ZOME AF
100-Year Flood Boundary	ZONE B
500-Year Flood Boundary-	ZUNE B
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7 _×
Zone D Boundary	
Riv <mark>e</mark> r Mile	•M1.5
**Referenced to the National Geod	etic Vertical Datum of 1929

*FXPLANATION OF ZONE DESIGNATIONS

*EXP	LANATION OF ZONE DESIGNATIONS
ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
В	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
С	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
′1- <mark>V</mark> 30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.



ATTACHMENT A

`

LEASE AGREEMENT

THIS LEASE dated the 22 day of between JOHN J. LAW, ANNA LAW, CHARLES J. LAW, DOROTHEA LAW, MARY F. PRISENDORF, JOHN PRISENDORF, hereinafter referred to as Lendlord and LANCIA TRANSPORT CORP., INC., a corporation of the State of New Jersoy, hereinafter referred to as Tenant.

WITNESSETH:

That the Landlord horeby domises and leases unto the Tenant and the Tenant hereby hires and takes from the Landlord for the term and upon the rentals hereinafter specified, the premises situate in the City of Hackenbuck, County of Bergen and State of New Jersey, and more particularly described in Schedule A, which is attached herete and made a part hereof. (See Rider)

1. The term of this Lease shall be for five (5) years beginning

1,1008 and ending June 50, 1973. However, TURY Tenant shall have the option to renew this loade for a further period of five (3) years, at the expiration of this Lease and for another five (5) years at the expiration of the first renewal. The Tenant, however, in the event that it decires to exercise either or both options shall so notify the Landlord, in writing, at least four (4) months prior to the expiration of this Lease and at least four (4) months prior to the expiration of the renewal Leans for the additional period of the second five (5) year option. The rental for this leave and the option periods will be contained in Paragraph 2 of this Lease.

- 2. The rest for the aforementioned first five (5) year period shall be as follows:-
- (a) \$1,800,00 for the first six months, payable upon signing of this Leaze, and \$1,800.00 for the second six months payable on the first day of the 7th month, and likewise thereafter for the first five (5) years.
- (b) \$2,100.00 for the first six months of the first cyllin period, and \$2,100.00 for the second six months payable on the first day of

BOCK 5183 PAGE 141 //

ATTACHMENT

the 7th month, and likewise thereafter for the second five (5) years.

- (c) \$2,400.00 for the first six months of the second option period, and \$2,400.00 for the second six months payable on the first day of the 7th month, and likewise thereafter for the third five (5) years.
- 3. In addition to and as "additional rent", to the rental provided and personal in Paragraph 2 of this agreement, the tenant shall pay all real estate/taxes, improvements, construction, or erections and structures thereon, including tanks and contents, and any other tax applicable thereto, for the said leased premises during the term this said lease is in effect. Landlord shall deliver to tenant the tax bill for said premises as they are received by Landlord from the municipality of Hackensack.
- 4. The use to which Tenant shall be permitted to use the leased premises shall be unlimited. Tenant may use the said premises for any use permitted by law on said premises.

Tenant shall have the right to construct, install and/or maintain any building, structure, tanks or any other installation necessary to tenant in the exercise of any use by tenant permitted by law. In such event, all of such structures or installation shall, upon the termination of this Lesse, regardless of cause, be the property of Tenant provided such structure or installation has not been so affixed to the realty as to become part of the realty and cannot be removed without causing material damage to the premises.

- 5. Tenant shall have an option to purchase the abovementioned lands and premises, together with the appurtenances, for the sum of \$70,000.00.

 However, it is understood and agreed that this option shall be for a period not to exceed the end of the first five year period of this Lease. The option, however, not to be exercised during the first year after the commencement of this Lease.
- (a) Tenant shall have an option to purchase the above mentioned lands and premises, together with the appurtenances, for the num

BOCK 5183 PACE 142

ATTACHMENT 1

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of 73,000 =during the second eption period. However, it is understood and agreed that this option shall be for a period not to exceed the end of the second five year period of this leave.

The Landlord shall convey marketable title to said premises by General Warranty Deed free and clear of all encumbrances.

- 6. The Tenant shall comply with any and all City, County, State and Federal regulations as same pertain to the demised promises, including Coast Guard regulations. Any and all permits pertaining thereto shall be at the cost and expense of the Tenant.
- 7. If the domined premises shall be taken or appropriated by virtue of eminent domain or be condemned for any public or quasi-public use, this Lease shall terminate ipse facto, but such termination shall not affect the Tenant's right to recover its apportionment of damages, including any installations or structures which may have been placed thereon by Tenant. For this purpose, all such structures and installations shall be considered as part of the realty but the value thereof shall inure and belong to Tenant.

Tenant assigns to Landlord all damages recoverable, including the aforementioned, from the public or private body on account of the taking, appropriation or injury of or to the whole or any part of the demised premises.

Landlord shall, unless the claim is actiled as herein provided, pronecute proceedings for the recovery of such damages with due diligence and so as not to lose the benefit of same. The Tenant may, at its own expense, designate an attorney to act jointly with the attorneys designated by the Landlord in the prosecution of said proceedings in the name and on behalf of the Landlord.

All amounts which may be recovered by the Landford for such damages from the taking authority (less any reasonable cost incurred by the Landford for Attorneys and experts' fees in connection with the same) whether by settlement, litigation or otherwise shall be apportioned between the Landford and the Tenant in proportion to their several interests and to the damages subtained by them, respectively. In ancertaining the Tenant's interest and

BCCK 5183 PAGE 143

ATTACHMENT 1-3

the damage sustained by the Tenant, the term of this Leane shall be deemed to run for the full remainder of the term specified herein, notwithstanding any prior termination thereof which may result as provided herein in ence of a taking or appropriation. Any apportionment due to the Tenant shall be paid promptly to it by the Landlord.

- Tenant shall have the right and privilege to assign or sublet said lease without the consent of the Landlord.
- 9. Any notice given under the terms of this lease shall be deemed sufficient to mest the requirements thereof as legal service, if served by certified United States mail, such notice to be computed from the date of mailing.
 - 10. This instrument may not be changed orally.

All the terms, covenants and conditions of this Loase shall inure to the benefit of and be binding upon the respective heirs, executors, administrators, successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties have interchangeably set their hands and seal or caused these presents to be signed by their proper corporate officers and caused their proper corporate seal to be affixed this day and year aforesaid.

Attests

Socretary.

By: Lgo Vancia Product.

Line Lancia

John J. Law.

John J. Law.

Charles J. Law

Charles J. Law

Mary F-Pricenters, Landord

John Pricentors, Landord.

ATTACHMENT H

LANCIA TRANSPORT CORP. INC

RIDER

5 (b)

Tenant shall have an option to purchase the abovementioned lands and premises, together with the appurtenances, for the sum of \$76,000.00 during the third five year period of this lease. However, it is understood and agreed that this option shall be for a period not to exceed the end of the third five year period of this lease.

Names and Addresses of Landlord are as follows:

John J. Law and Anna, his wife, 534 Lawn Ave., Palisades Park, New Jersey. Charles J. Law and Dorothea, h/w, 390 Summit Ave., Cradell, New Jersey. Mary F. Prisendorf & John, h/h, 340 Second Ave., Palisades Park, New Jersey.

Description of Premises:

Being part of the premises conveyed to John J. Law, Charles J. Law and Mary F. Prisendorf by deed dated May 17, 1950 from Esso Standard Cil Company and recorded in the Office of the Bergen County Clerk in Book 2075 on Page 276 on May 23, 1950, being approximately an area of 30,000 sq.ft., having a frontage of 100 ft. on River Street Jug Handle, Hackensack, New Jersey, to water line.

Attest:

LANCIA TRANSPORT CORP. INC

Charles J. Law, Landlord

BOOK 5183 PACE 145

ATTACHMENT H-

RIDER NO. 2.

11. The Tenant shall deliver to the Landlord a public liability policy in the sum of at least \$100,000.00, in which policy the Landlord is a stated beneficiary.

Description to be in accordance with survey prepared by Floric C. Job, Engineer, Hackensack, N. J.

LANCIA TRANSPORT CORP. INC.

ATTEST:

Elime Januar

disortancia

Presidont

John J. Law, Landlord

Anna Law, Landlord

Charles I Lew Yandlerd

Dorothon Law, Landlord

Mary F. Prisonopi, Landry

John Prisender, Landlord

BOOK 5183 PAGE 146

ATTACHMENT.

STATE OF NEW JERSEY)SS COUNTY OF PASSAIC

BE IT REMEMBERED, that on this 21 before me, the subscriber, An Attorney at Law of New Jersey, personally appeared Elaine Lancia, who, being by me duly sworn on her oath, deposes and makes proof to my satisfaction, that she is the Secretary of Lancia Transport Corp., Inc., the Corporation named in the within Instrument; that UGO LANCIA is the President of said Corporation; that the execution as well as the making of this Instrument, has been duly authorized by a proper resolution of the Board of Directors of the said Corporation; that deponent well knows the corporate seal of said Corporation; and that the seal affixed to said Instrument is the proper corporate seal and was thereto affixed and said Instrument signed and delivered by said UGO LANCIA, President as and for the voluntary act and deed of said Corporation, in presence of deponent, who thereupon subscribed her name thereto as attesting witness.

Sworn to and subscribed before me,

the date aforesaid.

Joseph G. Sproviere

Attorney at Law of New Jersey

ATTACHMENT A

BOCK 5183 PAGE 147

ATTACHMENT B

Committee of the commit

Indenture,

19th day of Made the January

Between

CAESAR A. DE FLORA and AGNES DE FLORA, his wife residing at 72 Goodwin Terrace, Westwood, New Jersey JORDAN DE FLORA and ROSE DE FLORA, his wife

residing at 288 West Clinton Avenue in the County of Bergenfield in the Borough herein designated as the Grantors, and State of New Jersey Bergen And

LANCIA OIL CO., INC., a New Jersey Corporation

having its principal office at 160 East Railway Avenue

nantanak kackarkark

in the City

in the County of

Passaic

and State of

herein designated as the Grantees;

Witnesseth, that the Grantors, for and in consideration of SIXTY-FIVE THOUSAND and 00/100 (\$65,000.00)

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents grant, bargain, sell and convey unto the Grantees forever,

all that certain or parcel

of land and premises, situate, lying and being in the Hackensack

County of Bergen

and State of New Jersey, more particularly described as follows:

BEGINNING at a point in the easterly line of the River Street jughandle which point is distant 108.67 feet more or less southerly from the corner formed by the intersection of the easterly line of the River Street jughandle with the southerly line of Kennedy Street (formerly known as Dock Street) and which point of beginning is distant 100 feet southerly from the southerly line of Kennedy Street and which point of beginning is the intersection of the easterly line of the River Street jughandle and the southerly line of land described as Parcel #1 in the deed made by Esso Standard Oil Company to John J. Law et als dated April 15, 1950, recorded May 23, 1950 in Book 3075, page 276, and from thence running

- South 69 degrees 52 minutes east and along the southerly line of lands now or formerly of Esso Standard Oil Company aforesaid, 200 feet more or less to a point in the present high water mark of the Hackensack River, thence returning to the point or place of Beginning, and running thence
- 2. Southerly and along the easterly line of the River Street jughandle and along the arc of a curve bearing to the right with a radius of 135.00 feet an arc distance of 30.54 more or less feet to a point of tangency in the easterly line of the River Street jughandle, thence
- 3. South 36 degrees 40 minutes 08 seconds west and still along the easterly line of the River Street jughandle 97.27 feet to a point of curvature in the same, thence
- 4. Southerly and along the easterly line of the River Street jughandle, and along the arc of a curve bearing to the left with a radius of 115.00 feet, an arc distance of 45 feet more or less to a point in the easterly line of River Street, thence
- 5. South 7 degrees 27 minutes east and along the easterly line of River Street, 33 feet more or less to a point in the northerly line of New Jersey Interstate Route 80, thence
- 6. South 82 degrees 03 minutes 30 seconds east and along the northerly line of Route 80, 315 feet more or less to a point in the high water mark of the Hackensack River, thence

BOOK 5492 PAGE

7. In a general northerly direction, and along the high water mark of the Hackensack River, 210 feet more or less to a point in the termination of the first course and there to end.

Together with any Riparian Rights which they may have abutting the premises in or on the Hackensack River and all of their right, title and interest in that strip of land*running along the northerly line.which may be included in the deed made by Esso Standard Oil Company recorded in Book 3075, page 276.*approximately 20 feet wide lying north of the first course herein.

Subject to easements, restrictions and right-of-way grants of record municipal and County zoning ordinances, such a state of facts as an accurate survey and inspection would show.

This description was prepared from the survey made by Frank W.Koestner Associates, P.E. & S. dated January 4, 1971.

Being the same premises conveyed to Caesar De Flora, one of the Grantors herein by the third tract in the deed made by Arnold A. Hart, the surviving Administrator, etc. dated January 31, 1939, recorded February 1, 1939 in Book 2148, page 643; and which is also the third tract in the deed to Caesar De Flora and Jordan De Flora, the Grantors herein made by Angelina De Flora widow of the late Patsy De Flora dated September 8, 1965, recorded September 8, 1965 in Book 4826, page 162.

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1971 JAN 27 PM 12: 38

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ATTACHMENT C

This Beed, made the 11th day of August

19 87 ,

Wetmeen

MARY PRISENDORF and JOHN LAW

in the City Bergen

And

295 Hudson Street

Hackensack

in the County of

New Jersey and State of

herein designated as the Grantors,

LANCIA OIL COMPANY, INC.

residence located at in the

340 South River Street

Bergen

City and State of New Jersey

Hackensack herein designated as the Grantees;

Witnesseth, that the Grantors, for and in consideration of the sum of ONE (\$1.00) DOLLAR, together with the receipt of a deed of even cate clarifying lot line

lawful money of the United States of America, to the Grantors in hand well and truly paid by the Grantees, at or before the scaling and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents remise, release and forever Quitclaim unto the Grantees forever.

that City
County of Bergen

of land and premises, situate, lying and being in the or parcel of Hackensack in the and State of New Jersey, more particularly described herein.

Account No.

(NJS 46: 15-2.1) Municipality of: Hackensack Lot No. Block No. 28B — Lot No. 22 No property tax identification number is available on date of this deed. (Check box if applicable.)

PARCEL NO. 1

Beginning at a point in the easterly line of the River Street jughandle as the same appears on the Assessment Map of the City of Hackensack, Bergen County, New Jersey distant southerly 98.80 feet from the intersection of same with the southerly line of Kennedy Street, formerly Dock Street, 40 feet wide and from said point of beginning running:

- 1) southeasterly parallel with said Kennedy Street south 69 degrees 52 minutes east 175 feet more or less to the westerly bank of the Hackensack River and from thence returning to the place of beginning and running:
- southerly and along the said easterly line of the River Street jughandle curving to the right along a curve having a radius of 135 feet an arc distance of 9.89 feet to a point; thence
- southeasterly parallel with the first course herein described south 69 degrees
 minutes east 172 feet more or less to the said westerly bank of the Hackensack River; thence
- 4) northeasterly and along said bank at various courses thereof 11 feet more or less to the end of the first course herein described and there to end.

PARCEL NO. 2

Beginning at the end of the first course above described and from said point running:

south 69 degrees 52 minutes east 126 feet more or less to the exterior line for solid filling approved April 11, 1864; thence

Prepared by: GRUEN AND RITVO

Harold Ritvo

AK 7131 PG 788

ATTACHMENT

- southwesterly and along said line south 8 degrees 23 minutes west 10.09 feet to a point: thence
- 3) northwesterly parallel with the first course herein described north 69 degrees 52 minutes west 131 feet more or less to the end of the third course above described; thence
- 4) northeasterly and along the westerly bank of the Hackensack River at various courses thereof 11 feet more or less to the point or place of beginning.

The above description is in accordance with a survey made by Job and Job, P.E. and L.S, dated March 20, 1987.

The purpose of the within deed is to clarify title and fix a lot line which has been in dispute between the parties to the within deed for an extensive period of time. The within deed should resolve the dispute and fix the lot line.

RECEIVED Aug 21 8 34 AH '87

BIRGEN COUNTY CLERK

This Bord, made the 19 th day of

Between LANCIA OIL COMPANY, INC.

xxxitixxxx located at 340 South River Street City

Hackensack

in the County of

and State of And

· New Jersey

herein designated as the Grantors.

MARY PRISENDORF and JOHN LAW ...

residences located at 295 Hudson Street
in the City of Hackensack in the County of
and State of New Jorsey herein designated as the Grantees;

Milnesseth, that the Grantors, for and in consideration of the sum of ONE (\$1.00) DOLLAR together with the receipt of a deed of even date clarifying lot line

lawful money of the United States of America, to the Grantors in hand well and truly paid by the frantes, at or before the scaling and delivery of these presents, the receipt whereof is hereby acknowledged, and the Grantors being therewith fully satisfied, do by these presents remise, release and forever Quitclaim unto the Grantees forever,

III that City

tract or parcel of land and premises, situate, lying and being in the of Hackensack in the and State of New Jersey, more particularly described herein.

(NJS 46: 15-2.1) Municipality of: Hackensack Account No.

Block No. 28B Lot No. 12

No property tax identification number is available on date of this deed. (Check box if applicable.)

Tex Map

PARCEL NO. 1

Beginning at a point in the easterly line of the River Street jughandle as the same appears on the Assessment Map of the City of Hackensack, Bergen County, New Jersey distant southerly 88.91 feet from the intersection of same with the southerly line of Kennedy Street, formerly Dock Street, 40 feet wide and from said point of beginning applies. beginning running:

- southeasterly parallel with said Kennedy Street south 69 degrees 52 minutes east 187 feet more or less to the westerly bank of the Hackensack River and from thence returning to the place of beginning and running:
- 2) southerly and along the said easterly line of the River Street jughandle curving to the right along a curve having a radius of 135 feet an arc distance of 9.89 feet to a point; thence
- 3) southeasterly parallel with the first course herein described south 69 degrees 52 minutes east 175 feet more or less to the said westerly bank of the Hackensack River: thence 1- 7756. ()
- 4) northeasterly and along said bank at various courses thereof 15 feet more or less to the end of the first course herein described and there to end.

PARCEL NO. 2

77 P Beginning at the end of the first course above described and from said point running:

south 69 degrees 52 minutes east 112 feet more or less to the exterior line for solid filling approved April 11, 1864; thence

Prepared by: GRUEN AND RITHD

cont'd.

PK 7140 PS 930

- 2) southwesterly and along said line south 8 degrees 23 minutes west 10.09 feet to a point; thence
- 3) horthwesterly parallel with the first course herein described north 69 degrees 52 minutes west 126 feet more or less to the end of the third course above described; thence
- 4) hortheasterly and along the westerly bank of the Hackensack River at various courses thereof 15 feet more or less to the point or place of beginning.

The above description is in accordance with a survey made by Job and Job, P.E. and L.S. dated March 20, 1987.

The purpose of the within deed is to clarify title and fix a lot line which has been in dispute between the parties to the within deed for an extensive period of time. The within deed should resolve the dispute and fix the lot line.

Cark 22.72

200

RK 7140 PG 931

ATTACHMENT

Secretary Secretary

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ATTACHMENT D

Division of Publicly Funded Site Remediation Office of Site Assessment

Report of Phone Call

Date: 214/94
Time:
Site Name: Lancia Oil Company
Location: 340 S River Street
Caller: Andrew Cyt
Person Contacted Pegsy McCintite Phone No. 201646-3924
Attillation Hackensick City Tax Assessor's Office
Summary of Call I called to Confirm
current ownership of BL 28B, Lot 12
the current owner is lated
As Lancia Oil Company Inc,
340 South River Street
Hackensack, NJ 07601
14St Dad Book 7140
Pase 930
1/2-1-6-
Signature

ATTACHMENT D-1

Division of Publicly Funded Site Remediation Office of Site Assessment

Report of Phone Call

Date: 3/15/94
Time: 350
Site Name: Lancia Oil
Location: 340 S River Street
Caller: Andrew Cyr
Person Contacted Peggy Macinture Phone No. 201 646-3924
Attillation Hackensack City Tax Assessors office
Summary of Call I called to confirm current
anneiship of BL 28 B Lot 22
according to tax assessor current owner
is Mary Proceedent, J. Law and C. Law
295 Hudson Street
Hackenack NJ 07601
Care of Charles Law
kst Ped 7137
fase 788

Signature 0

ATTACHMENT, ___

ATTACHMENT E

	1990 CENSUS PL-94.171 (REAPPORTIONMENT/REDISTRICTION PL-94.171 (REAPPORTION BERGEN COUNTY	NG) DATA			nant barou
	PL-94.171 (REAPPORTIONMENT) RESERVED COUNTY	(003)		Hackensack city	Harrington Park borou
'	MUNICIPAL CISTING	Garfield city	Glen Rock borough	Hackers	4 00
		darriore	. 70	4.12	1.86 0.21
		2.13	2.72	0.19	2492.03
	LAND AREA	0.06	0.01	¥ 8999.71	2492.00
	WATED AREA	12548.2	3998.62	1 1	1,511
-	POPULATION DENSITY*		3,963	17,705	• • • • • • • • • • • • • • • • • • • •
		11,458	3,300	1 040	4,623
	TOTAL HOUSING UNITS		10.883	37.049	3,401
	TO CONC	26,727	8,226	31,170	
	TOTAL PERSONS TOTAL PERSONS 18 AND OVER	21,585			
	TOTAL PERSONS TO THE			37,049	4,623
	POPULATION BY RACE	26,727	10,883	31,170	3,401
	Total	21,585	8,226	24,585	3,965 2,978
	18 Years and Over	25,077	9,979	21,551	30
	White	20,435	7,622	9,176	20
	18 Years and Over	598	. 240 193	7,093	0
	Plack	412 .	. 193	86	Ö
	18 Years and Over	23	2	76	622
	Am. Indian, Eskimo or Aleut	17	. 648	1,358	397
	18 Years and Over	444	398	1,079	6
	Asian or Pacific Islander	329	14	1.844	6
	18 Years and Over	585	11	1,371	
	Other Races 18 Years and Over	392			
•			·	5.594	106
	POPULATION OF HISPANIC ORIGIN BY RACE	2.418	207	4,295	75
	To+a1	1.704	153	3,312	70
	18 Years and Over	1.767	184	2,585	\
	white	1,256	133 3	392	ŏ
	18 Years and Over	67	3	290	O
	II lock	45	Ö	. 22	0
	18 Years and Over Am. Indian, Eskimo or Aleut	4	Ö	18	0
	18 Years and Over	4	9	51	· <u>o</u>
	Asian or Pacific Islander	16 10	7	1.797	5
	18 Years and Over	564	11	1,351	5
	Other Races	389	10	1	
	18 Years and Over	*		į	4,517
		RACE	10,676	31,455	3,326
	POPULATION NOT OF HISPANIC ORIGIN BY	24,309	8,073	26,875	3,864
	Total	19,881	9,795	21,273	2.908
	18 Years and Over	23,310	7,489	18,966	30
	White 18 Years and Over	19, 179	237	8.784 6.803	20
17	18 Tears and over	531 367	190	64	0
١F	Black 18 Years and Over	19	2	58	0
1	Am. Indian, Eskimo or Aleut	13	2	1,287	622 397
	18 Years and Over	428	639	1,028	397
	Asian or Pacific Islander	319	391	47	1
- 7	18 Years and Over	21	1	20	'
	Other Races	3	•	l	
	18 Years and Over		11.50)		
	Black 18 Years and Over Am. Indian, Eskimo or Aleut 18 Years and Over Asian or Pacific Islander 18 Years and Over Other Races 18 Years and Over *POPULATION DENSITY=TOTAL PERSONS/L	AND AREA (IN SQUARE N	IILES/	. 1	
	*POPULATION DENSITY TO THE				

ATTACHMENT F

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Lot Dimensions IRR 28B 340 SOUTH RIVER ST. B 28.03 # Lots 12 IRR. 4B # Acres 1.4 1S-CB Class Symbol 41.4B **Building Code** 1S Metal LANCIA OIL CO., INC. **Exempt Code** -160 E. RAILWAY AVE. Prop. Class 4B PATERSON, N.J. 07503 Gen'l. Condition G N F P 1976 Eff. Age: Actual **Date of Construction** COMMENT **RATIO BOOK-PAGE** SR1A # DATE PRICE **ADDRESS** OWNERSHIP 340 So. RIVER ST. HACK, N.J. 7140-930 934079 8-19-87 EX STATE DIVISION APPEALS COUNTY TAX BOARD ASSESSMENT RECORD IMP'TS. TOTAL LAND TOTAL LAND IMP'TS. REMARKS TOTAL IMP'TS. YEAR LAND 39100 1414 91500 30600 19000 3mos - del 1976 149600 1977 91500 58120 17,2200 50000 1978 122200 50,000 172 200 122200 53000 175200 53000 175200 LAND CALCULATION NON **TOPOGRAPHY** LAND ZONING ZONE CONF. LAND VALUE UNIT VALUE EFF. FT. FT. FACTOR TABLE **FACTOR** RULE DIMENSIONS Level Residential Hilly **Apartment** Low **Business** Dry .. Commercial Wet Industrial **BUILDING PERMITS** Stream Number Date Am't. Work **Lasement** 2.00 = 122000 TOTAL VALUE TOTAL SQ. FT 1,1,000 LOADING RACK 7669 MOVED TOTAL ACRES +TANK TOTHIS LOT 7-1-73 added letter mailed 8-26-76 NEW GARAGE 3-3-76 16000 CAKK 1800

TYPE IRR.

SO. RIVER ST.

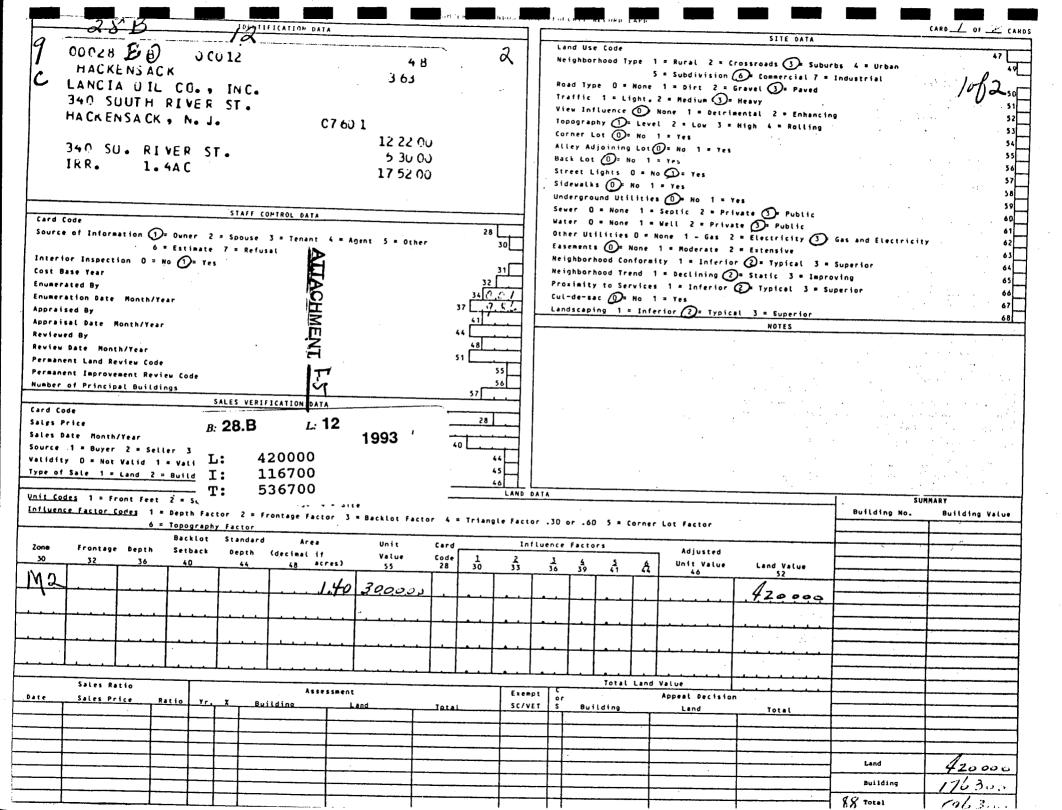
15-C.B.

LANCIA OIL CO., TNC. 160 E. RAILWAY AVE. PATERSON. N.J. 07503 ATTACHMENT F-2

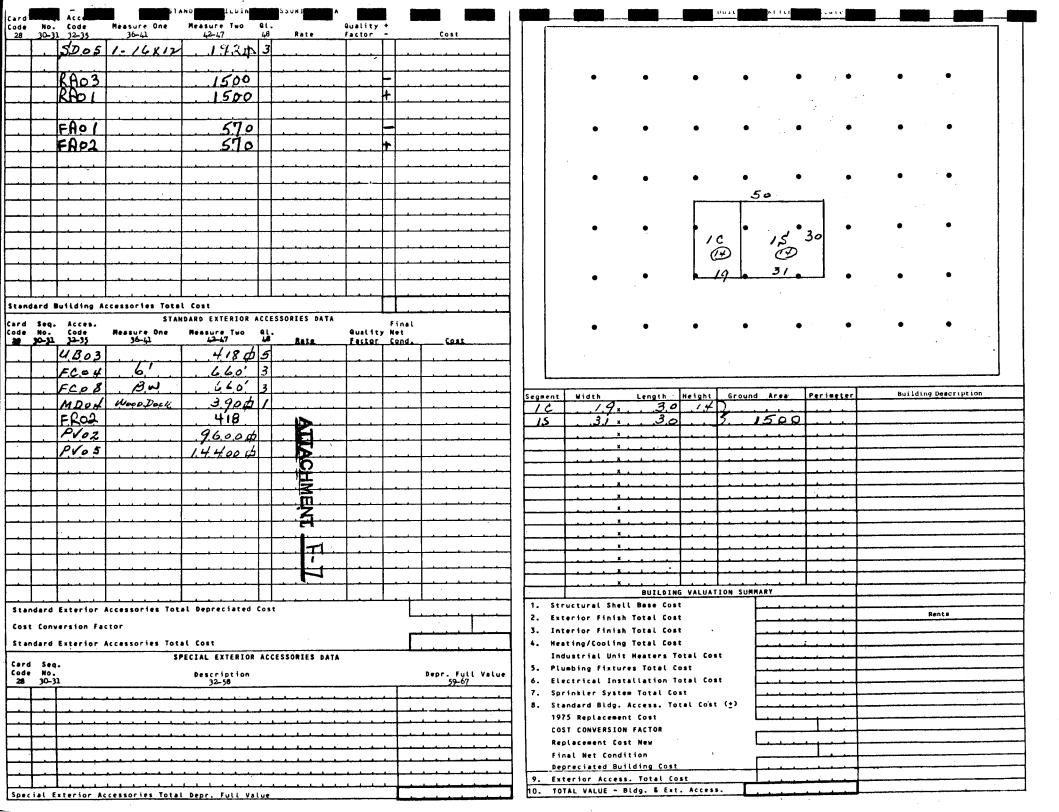
		•				₹ (Date of Const	truction	1976
OWNERS	SHIP			ADDF	ESS		DATE	PRICE	воок	-PAGE	SR1A	#	RATIO		COMMENT
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	·	ASSESS	MENT REC	ORD			COUNTY TAX	BOARD		STA	TE DIVISION	APPEAL	.s	•	
YEAR	LAND	IMPTS.	TO	OTAL	REMARKS	LAND	IMP'TS.	TOTA	AL	LAND	IMPTS.		TOTAL		
1974	9/500	39100	. 1306	500								ļ			
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1977	91500	5.1.	141	[** ^								ļ			· · · · · · · · · · · · · · · · · · ·
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LAND	ZONING	ZONE	NON CONF.	TO	OGRAPHY					AND CALC	ULATION	٨		<u> </u>	
Resident			CONF.	Level	V	DIMENSIONS	TABLE	FACTOR	RULE	FACTOR	EFF. F1	r. FT.	UNIT VA	LUE	LAND VALUE
Apartmer				Hilly											
Business				Low											
Commerc	ial			Dry	····										
Industria				Wet	******										,
**	BUILDING	PERMITS		Stream									<u> </u>		
Numbe	r Date	Am't.	Work	Łasem	ent		1	B 200	122011				<u> </u>		
7669			MOVEDLO	40/N & RA	ICK+TANK TO		61,000	- # G	<u>ي /، ح</u>	6 TO	TAL VALUE	89	91,50	0	
7670	61.7/22		THISLOT	Come 7/	1/23	TOTAL ACRES									
0049	3/3/76	16000	NEW	GARAL	3 E	Colinda with mulch 8/26/76.									
			1			1			-						

TYPE & USE	STYS.	UNITS	INTERIOR FINISH	HEATING	HALF STORY-ATTIC	AUXILIARY BUILDINGS
1 Family Dwelling	J., 7.		1 2 3	Hot Air-Gravity Forced	Unfinished	1 2
2-4 Family Dwelling			Plaster	Unit Heaters #	Finished Rooms	Ident.
			Drywall	Pipeless	Dormer Size	Class
Apt Garden			Wood Panel	Steam or H.W.	Rough Plumbing	Dimensions
Apt Hi Rise			Unfinished Area	Electric	OTHER ITEMS	Height
Store	1			Radiant	, SIZE	Area
Industrial		L	TILING	Baseboard	Canopy	Floor
Other (specify)			Bath: Fl. & Wains	Radiators	Terrace	Roof
		<u></u>	Fl. & Walls	Comb. Heat/A.C	Loading Dock	Walls
FOUNDATION			Stall Shower	Central A/C	Elevator	
Masonry			Lav: Fl. & Wains	A/C-Sleeve Units #	Escalator	Heat
Piers			Fl. & Walls	Oil Gas _ Coal	Standpipe	Light
		<u>, T.</u>			Built-in porch	Plumbing
EXT. WALL CONSTRUCTION		1 2	PLUMBING	BASEMENT	Fireplace	Age
Frame: Wood, Asb. Shingle, Alun	n.,		3 Fxt. Bath	Full None _	Poor W. D. H. 2 - (12'xH)	4
Vinyl or Stucco Siding			Stall Shower	Part %	Paving	
C/B or Tile		-, -	— 2 Fx. Lav.	- Finished:	Other	
C/B or Tile Stuccoed		<u> </u>	Stall Shower	Recreation %	<u> </u>	
Brick, Solid			Water Closet	Apartment %		Disposal Compactor
Brick, Veneer			Urinals	Garage Cars	Dishwasher Intercom	n Other
Other (specify)			Slop Sink	Other	Kitchen: Modern · Obs	solete
Card. (opening)			Kitchen Sink		NATURE	RENTS
ROOF	İ		Septic System	OCCUPANCY	NATURE	
Flat: Built-up TG ITL . DE	CK		No. Plumbing			
Gable: Asph., Wood sh., slate _						
Hip: Asph., Wood, Sh.			LIGHTING			
Mansard: Asph., Wood sh., slat	te		115 V - Modern			
			Fluorescent Fx.			Listed Da
Other	\dashv		Power Wiring Area	┫ <u>╒╃╃╃╃╃</u>	┧┧┨┩╏╏┪╇┿╅╏╏	++++++ III Will
PORCHES	. 1	2 3	LAYOUT B 1 2 3	╗┝ ┼╎┪╎╏╏ ┼┼┼┼┼		
Open			Rooms:			┦╌┞╶┞╶┞┈┞ ╌┼
Own Roof		 	Living	<u></u> ▋┡ ┤╎┧┩┥┝╏ ┼┼┼┼┼┼┼		
Main Roof			Dining			
Glazed			Dining Bedrooms Kitchens Den			\$\$\\\\\\\\
			Kitchens	┨╞┧┧┧╏╏╏╬╬		
Fncl. & Finished		─	Den			╽ ┩╌╃┼┼┼┼┼
Encl. & Finished		1 :				_<u></u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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	B 1	2	4			+++++++
FLOORS Hardwood		2				
FLOORS Hardwood Pine	B 1	2	Apartments Apartments			
FLOORS Hardwood Pine Concrete		2	Apartments Stores			
FLOORS Hardwood Pine		2	Apartments T			

1- PADING RACK 12X30					P	ART WI	DTH	LENGTH	AREA	No.	QUAN.	COST	TOTAL	DEPRECIATION
M	OVED T	OTHIS LOT			20 A	1 5	0	30	1500	1.1	1900	6.58	9570	A. Effective Age Depr. %
# 00	441 -	NEW C. B	GARAGE			•								B. Observed Phys. Cond. %
												<u> </u>	ļ	C. Net Condition %
# 4	26 -	TANK-	10'429'x	15000 6	AL					ADI	DITIONS AN	1 -	76 O	OBSOLESCENCE
							-		<u> </u>	3 70	7	235	470	D. Overimprovement %
									1	1	 			E. Underimprovement %
						···				TAN	VK -101	- +:	3.3	F. Functional %
						.				1	7.3761	1		G. Economic %
										1	20.0	on Be	RRELS	H. Net Condition %
			;							1				
	H	•			AC	CESSORY BU	JILDINGS			1	840	000		
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	E	•				ost Deduct		st Cond.						Summary of Appraised Value
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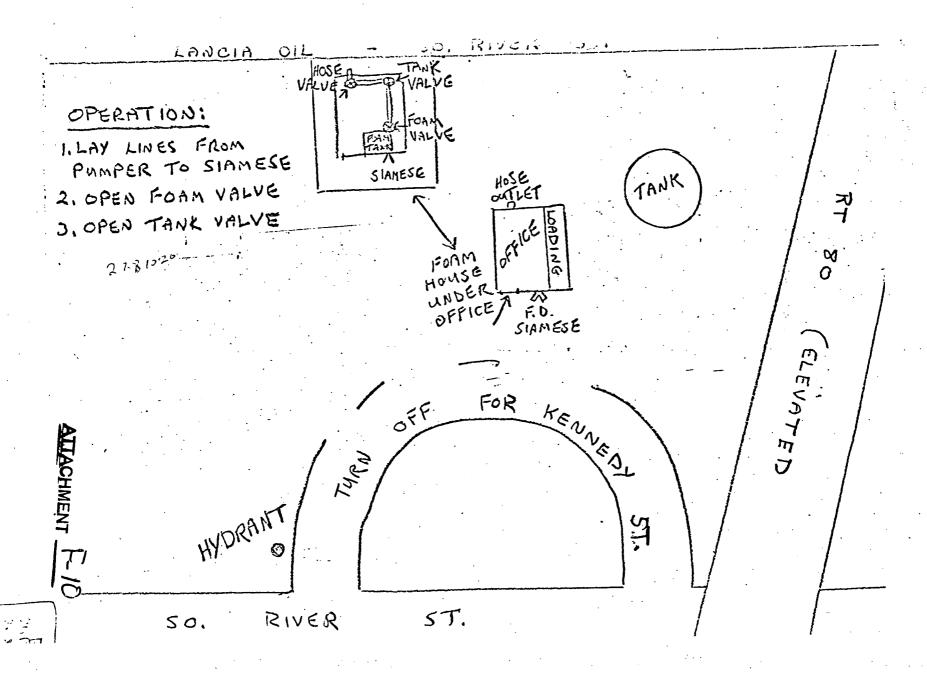


Owner		
Street Address		
COMMERCIAL BUILDING DATA		
card Code	Card Code 2240 EXTERIUR WALL FINISH	HEATING/COOLING 930
Building Number		
Predominant Shell Type 32 1.0.3	Exterior Wall/Finish Codes 1 a Grooved Plywood or Equiv. 2 a Wood Siding	
Predominant Use Type 1 - Apt. 2 Comm. 3 - Indus.	or Equiv. 1 Coment Block or Equiv. 4 - Tilt-up Concrete Panels or	Husting Uge Type Codes 1 - Apt (2) Comm. 3 - Indust.
Overall Quality 1 = Low (3 - Average 5 = High	Equiv. 5 - Common Brick on Black or Equiv. 6 - Face Brick on Wood	Heating/Cooling Unit Type Codes (1) Hot Water (2) Forced Hot Air) .
lear Built	Sheathing or Equiv. 7 - Face Brick on Block or Equiv. 8 - Common Brick	Unit Heaters (Central Cooling 5 - Package Cooling 6 - Central
Condition 1 = Poor 2 = Fair Normal 4 = Good 5 = Excel.	on Reinf. Conc. or Equiv. 9 = Face Brick on Reinf. Conc. or Equiv. 10 =	Combined 7 - Package Combined
Effective Age in Years	Precast Con. Panels with Expose Aggregate or Equiv. 11 - Metal and Glass	Henting/Cooling Quality Codes 1 - Low 3 - Average 5 - High
100% - (Eff. Age Dep \$ Obser. Phys. Cond \$)	Curtain Walls or Equiv. 12 - Stone or Equiv. 13 - Limestone or Equiv.	foiler Present for Type 1 Unit 0 = No 1 = Yes 30
Physical Net Condition	14 = Marble or Equiv. 15 = Polished Granite or Equiv. 16 = Store Front	Building Unit
OBSOLEGODION 45	Quality Codes 1 = Low 3 = Average 5 = High	Use Code Code Q1. Floor Area Rate Cost
100% - (Punc. Obsol + Econ. Obsol)	Tyre 01 N-11 4-11	31 32 33 34
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Fireproof Steel 107 - Lt. Steel with Galvanized Steel Exterior 108 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Heating/Cooling Predominant Class Quality Factor
Lt. Steel with Enameled Steel or Aluminum Exterior 109 m Lt. Steel with	70 72 73	Heating/Cooling Adjusted Cost
Insulated Sandwich Panel Exterior 110 - Bamt. with Conc. Floor 111 -		Industrial Unit Heaters
Bant. with Wood Floor 112 = Dock High Foundation 123 = Low Quality	2 2 2 2	No.
Service Station 124 - Below Average Quality Service Station 125 -	Card Code 28	Small Ind. Ht. 64
Average Quality Service Station 126 - Above Average Quality Service		Med. Ind. Ht. 69
Station 127 - Good Quality Service Station 133 - Low Quality Specialty	1 ± 1	Large Ind. Ht. 74
Bidg. 134 = Below Average Quality Specialty Bldg. 135 = Average Quality		Unit Heaters Total Cost
Specialty Bldg. 136 - Above Average Quality Specialty Bldg. 137 - Good	50 52 53 ±	
Quality Specialty Bldg. 145 - Garden Apartments		5 PLUMBING PIXTURES
hell Segment Quality Codes 1 - Lou 3 Average 5 - High	Exterior Wall Total Cost +	Card Code 28
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48 49 50 53 56 62	Offices or Equiv. 6 - Prof. Off. or Equiv. 7 - Clinics o. Equiv. 8 -	Plumbing Total Cont
Card Code 28	Large Retail Stores or Equiv. 9 - Retail Stores or Equiv. 10 - Banks	
30 31 32 35 38 4	or Equiv. 11. Warehouse 12 - Light Mfg. Area 13 - Heavy Mfg. Area	6 ELECTRICAL INSTALLATION
48 49 50 53 56 62	Quality Codes 1 = Low 2 - Below Average 3 - Average 4 - Above Average	Light Intensity 1 = Minimum (2)- Adequate 3 = Bright 48
Card Code 28	5 - High	Quality Codes 1 - Low 3 - Average 5 - High
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Quality Apt. Segmt. WR Factor Rate Factor Cost	Type Q1. Floor Area Rate Cost	ind. 65
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		Card Code NONE 28
	54 56 57	Quality Codes 1 - Low 3 - Average 5 - High
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	64 66 67	Type Floor Area Ql Rate Cost
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tructural Shell Base Cost	Card Code 28	
	30 32 33	Ind. 46 53 53 Sprinkler System Base Cost
7-Heavy Timber 6-Enam. Steel	2	Sprinkler System Quality Factor
3-Stl. Deck 7-Insul. Panels	Interior Finish Total Cost	Sprinkler System Quality Factor Sprinkler System Total Cost
4-Concrete 8-Precast Conc.		



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ATTACHMENT G

(See Our Ad On This Page)

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ME FUEL OIL COMPANY

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56ShaferPlHack-

MMSEY OIL CO

604MarketElmwdPk

ETROTECH INC FootOfRiversideAvLtFery

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SCH OIL COMPANY 797-3344 457MarketElmwdPk 342-5454 cia Oil Co Inc 340SRiverHack Bonded oil co iancia Oil Co Inc 340SRiverHack -343-9661 Bince 1946

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568-5400

-473-5181

941-3470

487-7772

487-4889

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ATTACHMENT H

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Equipment Specialists Incorporated

Spill Prevention, Control and Countermeasure Plan

and

Discharge prevention, control and Countermeasure Plan

for

Lancia Oil Company South River Street Hackensack, N.J.

SPILL PREVENTION CONTROL AND COUNTERMEASURES

DISCHARGE PREVENTION CONTROL AND COUNTERMEASURES

April 24, 1988

To update SPCC Plan dated 10-29-81 by C.R. Biggs, NJPE 9486

To provide initial DPCC Plan

LANCIA OIL COMPANY

340 South River Street

Hackensack, N.J. 07606

Last review of SPCC by U.S.E.P.A. was March 23, 1987 and report by its Technical Assistance Team states plant was in full compliance with 40 CFR 112, with total storage capacity of 1,217,000 gallons.

By letter of June 17, 1987, the Department of Environmental Protection of the State of New Jersey has requested plan of compliance with the N.J. Spill Compensation and Control Act NJAC 58:10-23 et seq as amended 1-23-80 covering major facilities in excess of combined storage of 400,000 gallons. This plan also includes compliance with N.J.A.C. 7:1E known as Discharge Prevention, Containment Countermeasure Plan which particularly directs attention to containment capacity and recovery facilities and time.

Owner's Declaration:

In accordance with Federal Regulations 40 CFR, Part 112, et seq., pursuant to Section 308 of the Federal Water Pollution Control Act amendment of 1972, 33 USC section 1251 et seq., and the NJAC 7:1E known as the N.J. Discharge Prevention Containment and Countermeasures Plan, we will implement the provisions of this Plan as outlined herein and as scheduled.

President

Engineer's Certification:

I have reviewed this Plan and visited this plant and find its intent in accordance with good engineering principals. Its effectiveness will depend upon the housekeeping and the accomplishing of the Implementation Plan.

John A. Savage, PENJ 21628

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Records, Certification, Plans	19
Operating and Office Personnel Training Sessions	20
Implementation Plan	21
Appended: Plan layout of area with proposed containment and sight wells.	

ORGANIZATIONAL DATA

Lancia Oil Company, 340 South River Street, Hackensack, N.J. 07606

Office Telephone:

201 -

Officerin Charge:

His Tel. # (Home):

Pollution Control

Officer:

His Tel. # (Home):

Spill Insurance

Coverage:

\$

Insurance Carrier:

Years at Site:.

Name of Owner:

Name of Operator:

Type of Business:

Storage:

Heating Oil Storage and Distribution

1 ea. 2,000 gallon underground tank - Diesel

1 ea. 15,000 gallon aboveground tank - Kerosene

1 ea. 400,000 gallon aboveground tank - #2 fuel oil

1 ea. 800,000 gallon aboveground tank - #2 fuel oil

PRODUCT STORAGE AND CONTAINMENT

Storage:

Aboveground

1 ea. 15,000 gallon steel tank - kerosene

1 ea. 400,000 gallon steel tank - #2 fuel oil

1 ea. 800,000 gallon steel tank - #2 fuel oil

Underground

1 ea. 2,000 gallon steel tank - diesel

Containment:

Net Requirement: 880,000 gallons -

As limited by grade differential of clay section of dike with grade elevation of 10' maximum; containment area grade of 7' or differential of 3':

80' x 165' = 13,200 sq. ft. Less displ. 1,385 " " of 400,000 gallon tank 11,815 " " x 3'H x 7.48 gal/cu.ft. = 265,130 gal.

By increasing this section's height to that of the block wall of 12.8' or a differential of 5.8' the containment becomes:

11,815 sq.ft. \times 5.8' H \times 7.48 gal/cu.ft. = 512,581 gallons

To meet the required containment of 880,000 gallons without overstressing the present containment facility, these steps will be taken:

- 1. Increase the clay dike section to elevation of 12.8' along its entire length.
- Construct a second containment area as shown on drawing (concrete block wall - reinforced at each block and tied at all corners) to a 12.8' grade:

 $58 \times 125 = 7,250 \text{ sq. ft.}$ $25 \times 75 = 1,875$ $9,125 \text{ sq. ft. } \times 5.8 \times 7.48 = 395,879 \text{ gallons}$

512, 581 + 395,879 = 908,460 gal. or 28,460 gal. over 880,000.

Reference is made to 5-25-82 letter of C.R. Biggs, P.E. which cites current dike as insufficient, and suggests raising height to 15.0' elevation or 8' differential. This was not done, and for obvious reasons we do not recommend modifying existing structure to such a degree.

PRODUCT STORAGE AND CONTAINMENT, (Cont'd.)

Transport Output Positions:

(c) $45 \times 50 \times .25$ berm x 7.48 gal/cu.ft. = 4,200 gallons

Transport Input Positions:

(d) 30 x 160 x .25 net berm x 7.48 gal/cu.ft. = 9,000 gallons

Note: The transport input containment could accommodate overflow of the transport output area.

AREA FACILITY AND DRAINAGE

See appended drawing.

Facility is located in an industrial/commercial area, on approximately 1.6 acres on the shore of the Hackensack River, as one of several fuel oil storage plants that border one another. Hence, any underground contamination, waterfront contamination, and some potential surface contamination sources are unpredictable.

Updiked area grade pitches away from the river.

Oil traces within and without diked or bermed areas will be constantly observed for its presence, and will be removed by application of sorbent material, or soil replacement.

All tankage and all transport loading and unloading areas are equipped with dike and berm containment and deficiencies are noted along with remedial directives in various sections of this Plan.

DIKE AREA CONTAINMENT AND PRODUCT RECOVERY

In the letter of C. R. Buggs, PENJ 9486, he states the test borings of NJDOT for Route 80 on the south side of Lancia property indicates material of surface is tight clay, and states "This clay is impervious to oil." This seemed to satisfy EPA"s 40 CFR 112 et seq.

N.J.D.E.P. 7:1E et seq NJAC deals more specifically with groundwater protection and containment area imperviousness. For us to meet this stringent interpretation of imperviousness, this implementation plan calls for testing for specific containment time of area and clay dike section.

Assuming we are to recover 800,000 gallons of product, or even 715,000 gallons when allowing for foam system displacement, and that a suction leg was provided in dike piping so that output pumps could be utilized to evacuate spillage into mobile tanks, and recovery contractor equipment and neighboring equipment was called in for recovery:

Discovery time - weekend

24 hours

Recovery of 715,000 at 2,000 GPM =

 $\frac{6}{30}$ hours

Tidal water of river is a mean of 5' below grade. Infiltration rate to be determined, along with transmissibility. NJDEP limits infiltration rate to less than 6° per hour; imposing major soil replacement.

Assuming a surface recovery time of 30 hours maximum and an infiltration rate of 6" per hour, spillage would be in the ground-water unless sight wells were present and pumpout was started immediately following surface removal. Therefore, this plan recommends perimeter sight wells.

SPILL PREVENTION - STORAGE TANKS

All aboveground tanks will be equipped with liquid level gauges.

If they are of a type that will provide electrical system shutdown of input pumps when high level was achieved, system will be so equipped.

The Pollution Control Officer will be responsible for assuring sufficient receiving capacity in specific tankage prior to each input operation, will set the mode of receiveing valving, will see that input vehicle is properly immobilized with wheel chocks, and catchbuckets are set and that transport is leak free.

All main valves will be closed at end of operation and locked. If this creates a trapped condition that subjects fuel to thermal expansion, we will install thermal relief valves and pipe that system to a receiving container.

Storage tanks will be under constant scrutiny for bottom or shell leakage and will be integrity tested every five years prox.

The underground tank will be scrutinized via perpetual inventory control and will also be acceptably tested every five years.

All testing will be certified and certificates will be included in the environmental records file.

Truck tanks with product will be stored overnight in a containment area.

Each tank will be identified with the name of the product to assist emergency crews in the event of a catastrophic happening of any type.

Immobilization of barge is function of barge company.

SATURATED SOIL WASTE AND WASTE OIL DISPOSAL

This matter will be shipped to Coastal's main terminal for their disposal via their contractor.

All the operations area, except for the storage tank diked area, is paved and therefore, only accumulations of sorbent material and trucked in or windblown dirt will be within the containment areas. These to be kept free of oil trace accumulations or saturated material.

GROUNDWATER

At the time the core samples are taken to determine diked area permeability and earth dike permeability, core diameter will be specified 2" and will penetrate to mean tide groundwater.

Location of samples are indicated on the attached plan view of area.

The core locations will be converted to 2" sight wells and samples will be taken and numbered to correspond to numbers on the drawing.

These samples will be subjected to laboratory test and certification. It must be acknowledged that the detected oil was not necessarily the product of Lancia Oil Company, but possibly that of the neighboring area to the north whose age of plants is decades older than Lancia's. Transmissibility of underground pollutants can be estimated in this area at 1' per 24 hours.

Groundwater is influenced by quality of the tidal Hackensack River and the offloading of petroleum products from barges north of this plant. River flow is south.

_MPLEMENTATION PLAN - April 26, 388

•	Completion Date
Determine permeability of present and proposed dike areas and of current earthen section of dike. It must have the ability to retain spillage during the duration of recovery and removal of saturated soil.	7-26-88
Install Input Direction Sign at Transport Input Station.	7-26-88
Implement creation of additional diking area and height as shown in drawing and under Containment, along with berming of loading and unloading transport stations.	8-26-88
Assure yourself that Barge has sufficient external containment.	7-01-88
See to installation of sight wells and institute sight well sampling with special attention to initial sampling and testing results to establish present status of groundwater.	7-26-88
Perform tank integrity testing the next time tankage is empty and cleaned. This to be a non-destruct certified test.	
Hold first employee training session and give special attention to protection of river, groundwater and storm sewers.	7-01-88
Organize perpetual inventory control.	7-01-88
Prepare the Environmental File Drawer to hold pertinent material and copies of the Plan.	7-01-88
Install needed thermal control systems.	7-26-88
Correct all plant leakage. Start MONTHLY AREA REPORTS.	7-26-88
Clean up entire plant's oil traces, saturated materials, etc.	7-26-88
See that shovels, containment soil, sorbent material, chock blocks, catchbuckets and basins are in place.	7-01-88
Prepare means of eliminating spillage due to post loading drippage at rack and hose hookup at unloading stations.	7-26-88

Immediately:

Review this Plan and, when in agreement, sign Owner's Acknowledgement.

Complete Organizational Data information, and page 16.

At same time you review Plan, refer to Implementation Plan of 10-29-81 and letter to Mr. Gluckstern of May 25, 1982, and various Agency letters - Federal and State - subsequently received. All support needs of additional containment required.



ATTACHMENT I

DISCHARGE PREVENTION CONTAINMENT AND COUNTERMEASURE (DPCC) PLAN AND AND

DISCHARGE CLEAN-UP AND REMOVAL (DCR) PLAN CERTIFICATION FOR

Lancia Oil Company Hackensack, New Jersey

SUBMITTER CERTIFICATION

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including fines or imprisonment or both, for submitting false, <u>inaccurate</u> or incomplete information.

Signature:

Name: Ugo Lancia

President

Lancia Oil Company

CORPORATE CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this plan and all attached documents and, based on my inquiry of this information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information.

Signature:

Name: Ugo Lancia

President

Lancia Oil Company

:

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DISCHARGE PREVENTION, CONTAINMENT AND COUNTERMEASURE (DPCC) PLAN This Discharge Prevention, Containment and Countermeasure (DPCC) Plan has been prepared by MATRIX Environmental Management, Inc. (MATRIX) for the Lancia Oil Company (Lancia) facility located in Hackensack, New Jersey. Lancia is an on shore storage and transfer terminal whose input is via tanker truck, and whose output is via land transport. The river barge is presently not active. The Plan describes procedures and equipment in place to prevent and control discharge of hazardous substances, as defined by N.J.A.C. 7:1E-1.7. No underground storage tanks are located at this facility. This facility has had no reportable spills over the past 12 months. Based on the above total liquid storage capacity of 1,215,000 gallons, Lancia is considered a "major facility" as defined by N.J.A.C. 7:1E-1.6 and is therefore required to meet the standards for discharge prevention and control as described in N.J.A.C 7:1E. A schedule for upgrading the facility to fully meet these standards is provided in Section 12.0 of this Plan.

The hazardous substance storage areas addressed in this Plan were identified by MATRIX during a site inspection conducted on September 21, 1992. These areas are described in detail in Section 3.0. Additional information contained in this Plan, as required by N.J.A.C. 7:1E-4.3, includes the following:

- The name, telephone number and location of the facility including street and mailing address, county, municipality, tax lot and block number, and the coordinate centroid in the New Jersey State Plane.
- The name(s), telephone number(s) and business address(es) of the owner or operator of the facility.
- A general site plan of the facility at a scale of one inch equals 30 feet, showing the location of storage tanks, transfer areas, and structures used for the prevention of discharges, and all facility fencing and gates.
- A description of all hazardous substance storage areas and a schedule for integrity testing and maintenance or reconstruction, pursuant to N.J.A.C. 7:1E-2.2.

- · A description of truck loading and unloading areas, pursuant to N.J.A.C. 7:1E-2.3.
- A description of all secondary containment, including their capacity and materials of construction, pursuant to N.J.A.C. 7:1E-2.6.
- · A description of all leak detection and monitoring procedures, pursuant to N.J.A.C. 7:1E-2.10.
- · An outline of the housekeeping and maintenance program, pursuant to N.J.A.C. 7:1E-2.11.
- An outline of the personnel training program pursuant to N.J.A.C. 7:1E-2.12.
- A description of the physical security measures at the facility, pursuant to N.J.A.C. 7:1E-2.13.
- A catalog list of all standard operating procedures that will be written pursuant to N.J.A.C, 7:1E-2.14.
- A description of the record keeping system employed by the facility, pursuant to N.J.A.C. 7:1E-2.15.

2.0 GENERAL FACILITY INFORMATION

2.1 General Information

Name and Location of Facility:

Name:

Lancia Oil Company 340 South River Street

Location:

Hackensack, NJ 07606

Telephone Number:

(201) 342-5454

County:

Bergen

Tax Lot and Block No: Block 28B, Lot 12

New Jersey State Plane Coordinate Centroid: N741,600 E2,174,000

Facility Mailing Address:

Lancia Oil Company 340 South River Street Hackensack, NJ 07606

Facility Operator:

Ugo Lancia, President Lancia Oil Company 340 South River Street Hackensack, NJ 07606

Telephone Number:

(201) 342-5454

Response Coordinator:

Ugo Lancia, President

Telephone Number:

(201) 342-5454

Operating Hours:

May 1 - October 1

7:00 am-4:00 pm

October 1 - May 1

7:00 am-5:00 pm

2.2 Facility Drainage

Surface drainage is eastward from the loading, unloading and building areas towards the Hackensack River. The length of flow is approximately 200 feet from the paved loading and unloading areas. Earthen berms at the eastern border of the property serve as dams, preventing drainage from flowing into the adjacent Hackensack River. Refer to Figure 3, Drainage and Land Use Map, showing the location of all hazardous substance storage areas in relation to the nearest surface water body (Hackensack River). There are no storm sewers located on site. All hazardous materials are stored within secondary containment and are not subject to flooding.

3.0 HAZARDOUS SUBSTANCE STORAGE AREAS

3.1 Major Tank Farm Storage Area

The only hazardous substance storage area at this facility is the Major Tank Farm Area, which is located in the northeast portion of the site. The Major Tank Farm Area contains three aboveground storage tanks (ASTs) as described below.

Tank #	Product	Capacity (gal)
1	#2 Fuel Oil	800,000
2	#2 Fuel Oil	400,000
3	Kerosene	15,000

The following information describes this storage area pursuant to N.J.A.C. 7:1E-2.2(a) through (g).

- a) 1. This storage area has secondary containment. The secondary containment consists of a masonry wall on three sides and a clay berm on the fourth side of the tank storage area. For more details, please refer to section 3.1.1.
 - 2. The base underlying the storage tanks is composed of clay
 - 3. Pipes leading to and from the tanks enter below the liquid level. All values are readily accessible on the event of a leak or discharge. The pipe which penetrates the secondary containment masonry wall to the east requires patching to prevent the discharge from escaping outside the secondary containment.
 - 4. Integrity testing is conducted every five years as per Section 3.2 of the DPCC Plan.
 - 5. A report on the initial integrity testing will be submitted to the department within 30 days of the completion of the tests.
- b) These storage tanks do not have internal heating coils.
- c) These tanks are not equipped with devices capable of detecting overfills. These tanks will be upgraded to include a high level alarm with an audible or visual signal.
- d) These tanks do not have overfill lines.
- e) These tanks are permanent.
- f) The #2 fuel oil and kerosene tanks transfer materials to tank trucks for distribution.

3.1.1 Secondary Containment

The secondary containment around the main tank farm varies from 4 feet to 8 feet high. This secondary containment is constructed of a masonry wall on the south, east and west sides of the tank farm and a clay berm on the north side. The clay berm averages approximately 3 feet to 7 feet in height. The floor of the tank farm had received clay fill to raise the grade to match the adjacent roadway during the construction of the facility in the early 1930's. This clay creates an impoundment of precipitation for several days. Consequently, according to N.J.A.C. 7:1E-2.6.3, this existing containment system for the three aboveground storage tanks is exempt from being lined with impermeable materials because the existing system:

- 1. Can protect groundwater for the period of time needed to clean up an remove a leak up to the entire volume of the largest tank:
- 2. Allows the visual detection of leaks; and
- 3. Is inspected daily.

The required dike height for the major tank farm is 76", which includes an estimated 6" of rain water accumulation. Refer to calculations in Appendix B. Therefore, the capacity of the secondary containment is not sufficient and will be increased as per the schedule in Section 12.0.

- a) This secondary containment system blocks all probable routes by which heating oil and kerosene could reasonably expected to become a discharge.
- b) The capacity of this secondary containment system is not of sufficient capacity to accommodate six inches of rain water. Volume calculation are included in Appendix C.
- c) As mentioned above, the secondary containment system is made of masonry and clay materials.
- d) This secondary containment system does not drain into a water course, ditch, sewer or storm drain. Any leak from the heating oil tank is contained within the secondary containment.
- e) The tanks are compatible with the materials stored within them.
- f) Any leaks which occur within the secondary containment system are promptly removed.

3.2 Integrity Testing

In accordance with 7:1E-2.2(a)4, the deadline for integrity testing at the Lancia facility was February 1, 1993. At the time of this report preparation, Lancia is scheduling integrity testing on the aboveground storage tanks. A report summarizing the results of the integrity testing will be forwarded to the NJDEPE within 30 days of the completion of the tests.

All tank inspection and maintenance programs are performed in compliance with API 653.

No. 2 Fuel Oil (800,000 gal.)	Points per 7:1E-2.2
Age (as of 9/3/91)	3
Number of leaks for past 5 years	. 1
Date of Previous Structural Integrity Test	5
Proximity to surface water supply (ft.)	. 5
Total Points	14
Deadline for Initial Integrity Testing	2/1/93

No. 2 Fuel Oil (400,000 gal.)	Points per 7:1E-2.2
Age (as of 9/3/91)	3
Number of Leaks for past 5 years	1
Date of Previous Structural Integrity Test	5
Proximity to surface water supply (ft.)	5
Total Points	14
Deadline for Initial Integrity Testing	2/1/93

Kerosene	Points per 7:1E-2.2
Age (as of 9/3/91)	3
Number of Leaks for past 5 years	1 ·
Date of Previous Structural Integrity Test	5
Proximity to surface water supply (ft.)	5
Total Points	14
Deadline for Initial Integrity Testing	. 2/1/93

3.2 Integrity Testing

The tanks at the Lancia site require integrity testing in accordance with N.J.A.C. 7:1E-2.2. Lancia's tanks are integrity tested on an annual basis by the Accurate Tank Testing Company of Franklin Lakes, NJ. The most recent integrity testing was conducted on April 18, 1991. A record of tests results is maintained on site. Lancia will continue to perform integrity testing every five years.

All tank inspection and maintenance programs are performed in compliance with API 653.

There are four main loading/unloading areas for hazardous substances at the Lancia facility; the Fuel Oil Loading Area west of the main tank farm, a Kerosene Loading Area south of the main tank farm, Truck Unloading Area south of the main tank farm, and an inactive Marine Transfer Area.

4.1 Fuel Oil Loading Area (West of Main Tank Farm)

Trucks are loaded with No. 2 fuel oil in a concrete covered area west of the main tank farm. The loading area is roofed, well illuminated and contains sufficient space for tank truck maneuvering. Approximately 25 feet of underground piping occurs between the storage tanks and the loading/unloading area.

- a) There is no adequate secondary containment present at the loading area.
- b) Prior to the filling of a tank truck, the lowermost drain and all outlets are examined in accordance with applicable SOPs to insure they are closed.
- c) During filling and prior to departure, the lowermost drain and all outlets will again be examined for leakage in accordance with the appropriate SOPs and, if necessary, tightened, adjusted, repaired or replaced so as to prevent liquid leakage in transit. All manifolds on tank cars or tank trucks shall be flanged or capped, and valves secured, prior to leaving transfer areas.
- d) All tank trucks will be immobilized with wheel chocks prior to and during fill operations.
- e) The tank truck and the loading/unloading area will be manned during all transfer operations.

4.2 Kerosene Loading Area (South of Main Tank Farm)

A kerosene loading area occurs immediately south of the main tank farm. This area is underlain by concrete and is well illuminated. No roofing is present at this loading area.

- a) There is no secondary containment present at the loading area.
- b) Prior to the filling of a tank truck, the lowermost drain and all outlets are examined in accordance with applicable SOPs to insure they are closed.
- c) During filling and prior to departure, the lowermost drain and all outlets will again be examined for leakage in accordance with the appropriate SOPs and, if necessary, tightened, adjusted, repaired or replaced so as to prevent liquid leakage in transit. All manifolds on tank cars or tank trucks shall be flanged or capped, and valves secured, prior to leaving transfer areas.
- d) All tank trucks will be immobilized with wheel chocks prior to and during fill operations.
- e) The tank truck and the loading/unloading area will be manned during all transfer operations.

4.3 Truck Unloading Area (South of the Main Tank Farm)

Tanker trucks unload No. 2 fuel oil through 20 feet of underground pipes into the aboveground tank. There is adequate room for the trucks to maneuver. This area is underlain by concrete and is well illuminated. This loading area does not have a roof.

- a) There is no adequate secondary containment present at the loading area.
- b) All tank trucks will be immobilized with wheel chocks prior to and during unloading operations.
- c) The tank truck and the unloading area will be manned during all transfer operations.

4.4 Marine Transfer Area

The Marine Transfer Area at Lancia is no longer active. Lancia does not receive barge shipments.

5.0 In-Facility Piping For Hazardous Substances_____

All loading/unloading areas are connected with the main tank farm via single-walled underground and aboveground piping. None of the piping contains alarm or leak detection systems.

5.1 Aboveground Pipes

Aboveground pipes are used to transfer fuel oil within the Main Tank Farm and the Marine Transfer Loading Area. All aboveground pipes are single-walled and do not contain alarms. The aboveground pipes within the Main Tank Farm are contained within the secondary containment system.

5.2 Underground Pipes

Underground pipes are used to transfer fuel oil from the loading area west of the Main Tank Farm area (approximately 25 feet of piping). Underground pipes are also used to transfer fuel to the loading rack south of the Main Tank Farm (approximately 20 feet of piping). All underground pipes are single-walled and do not contain alarm or leak detection systems.

8.0	SECL	IR.	ITY	1
U.U	JLLL	J 88		1

Lancia's facility is secured by an six foot high chain link fence on three sides, and the Hackensack River bounding the fourth side. The facility has adequate lighting to detect leaks or discharges from storage and loading and unloading areas. Access to the site is restricted to one locked entrance.

Lancia's security also consists of:

- All valves which will permit the escape of a tank's contents to the surface are always locked when not in use.
- Starter controls on all pumps are locked in off position when the pumps are not in use.
- The open ends of all pipes securely capped when not is use.

Compliance Schedule DPCC Plan Lancia Oli Company Hackensack, New Jersey (Page 1 of 2)

	•	
<u>Item</u>	Commencement Date	Compliance Date
Secondary Containment Systems		
Provision of secondary containment systems meeting design criteria specified in N.J.A.C. 7:1E-2.6 for the following hazardous substance storage areas.	;	·
· Fuel Oil Loading Area	June, 1994	August, 1994
Kerosene Loading Area	June, 1994	August, 1994
Truck Unloading Area	June, 1994	August, 1994
• Patch Area of Pipe Preparation	June, 1994	August, 1994
In-Facility Piping	•	
Provide product sensitive leak detection device where such devices are state-of-the-art technolas specified in 7:1E-2.4.		
• Fuel Oil Loading Area	June, 1994	August, 1994
Truck Unloading Area	June, 1994	August, 1994
Training Program		
 Update employee job descriptions as required required by N.J.A.C. 7:1E-2.12. 	June, 1994	August, 1994
Aboveground Storage Tanks		
• Installation of overfill devices	June, 1994	August, 1994
• Integrity Testing	July, 1993	August, 1994

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COMPLIANCE SCHEDULE (Page 2 of 2)

	Commencement Date	<u>Compliance Date</u>
Standard Operating Procedures	·	
Prepare Standard Operating Procedures (SOI for the following:	P's) June, 1994	August, 1994
· Loading Rack		
· Main Tank Farm	June, 1994	August, 1994
· Truck Unloading Area	June, 1994	August, 1994
· Kerosene Loading Area	June, 1994	August, 1994
Record Keeping		
Preparation of and development of a record keeping system for the following documents:	June, 1994	August, 1994
• Employee Training records		
· Job classifications and job descriptions		
Emergency response drills		
· Hazardous substance inventory		. '
• Integrity testing results		
· Inspection Logs	,	
Maintenance Logs		
Inspection Schedule		
• Develop an inspection schedule in accordant with N.J.A.C. 7:1E-2.10.	ance June, 1994	A ugust, 1994

13.0 DOCUMENTS TO BE MAINTAINED AT THE FACILITY_

The following documents will to be maintained, updated, and made available for NJDEPE's review. In addition, a catalog list of all such documents will also be maintained, and will show title, identification number, and date of issue.

- (1) Facility Inventory of Hazardous Substances
- (2) Standard Operating Procedures
- (3) Facility Emergency Response Plan
- (4) Job classifications and job descriptions
- (5) Housekeeping and maintenance program procedures and records

A schedule for preparing the documents listed below is provided in Section 12.0.

DISCHARGE CLEANUP AND REMOVAL (DCR) PLAN

TAB	I F	OF	CO	NI	FN	JTS

Discl	harge Cleanup and Removal (DCR) Plan	Page
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7.0	Emergency Response Drills	7-1
8.0	Coordination Agreements	8-1
9.0	Plan Review and Updating	9-1

This Discharge Cleanup and Removal (DCR) Plan has been prepared for the Lancia Oil Company (Lancia) facility located in Hackensack, New Jersey. The plan provides procedures for responding to fires, explosions and discharges of hazardous substances at the facility. The plan has been prepared in accordance with the requirements specified for the DCR plans in N.J.A.C. 7:1E - 4.4.

Operations at the Lancia facility include storage and transfer of No. 2 fuel oil and kerosene. The Lancia facility stores hazardous substances, as defined by N.J.A.C. 7:1E - 1.7, in aboveground tanks. A complete description of all hazardous substance storage facilities is provided in Section 3.0 the attached DPCC Plan.

The DCR Plan includes the following general information for responding to spills at the Lancia facility:

- Names and telephone numbers of individuals responsible for implementation of this plan (Response Coordinator and Alternate).
- Immediate defensive actions to be taken by any site worker causing or discovering a spill, including whom to notify of the spill.
- Actions to be taken by the Response Coordinator, and designated response personnel to contain and mitigate the spill.
- Site plan, showing the locations of all hazardous substance storage areas, emergency response equipment, fire extinguisher and spill response equipment.
- A list of emergency equipment at the facility such as fire extinguisher, personal protective equipment, spill control, cleanup and decontamination equipment.
- A description of the type and amount of spill response training given to personnel who handle hazardous substances.
- · Procedures for reviewing and updating the DCR Plan.
- A schedule for implementing procedures necessary to bring this plan into compliance with revised DCR regulations.

B. <u>Commercial and Industrial Areas</u>

The surrounding area immediately down gradient of the site would be either the Hackensack River or South River Street. A discharge from the transfer area that was not contained by the or secondary containment could first have an impact on South River Street. There could be flow into the existing storm sewer system. Should the discharge impact the storm sewer, all facility personnel would be directed to attempt to plug the nearest storm manhole. Additionally, containment booms stored on-site would be deployed in the street to contain the discharge. A discharge at the Major Storage Tank Farm that was not contained by the secondary containment would impact the Hackensack River. Should the discharge impact the Hackensack River, containment booms stored on-site would be deployed in the river to contain the discharge.

C. Environmentally Sensitive Areas

In the event of a discharge not contained within the secondary containment system, protection of the surrounding environmentally sensitive areas mapped in Figures 4-7 of this plan would be necessary. The realistic objective of off-site containment equipment deployment is to protect the geographically stationary biologically sensitive systems. Geographically stationary biological systems such as wetlands and rookeries often accumulate hazardous substances. Subsequently long term adverse impacts due to contamination may compromise the environmental quality of these areas. As there are several stationary systems both immediately upstream (flood) and downstream (ebb) of the site, the order of deployment should be prioritized according to the tidal regime. In the event of an insoluble spill during the slack or flooding tide, containment booms should be deployed across the confluences of the upstream wetland drainage and fill points. The order of deployment should protect those systems closest to the site first and the deployment trend should follow the flood of the tide upstream. If the spill has not been contained by the full flood of the tide, or if the spill occurs at the flood or ebbing portions of the tidal regime, stationary systems downstream of the site should be protected. Downstream protective measures should be deployed in a similar manner to the upstream protection strategy mentioned above; however, the deployment of the containment booms should follow the ebb of the tide, i.e., downstream.

ENVIRONMENTALLY SENSITIVE AREAS PROTECTION PLAN CERTIFICATION LANCIA OIL COMPANY HACKENSACK, NJ

This environmentally sensitive areas protection plan identifies those environmentally sensitive areas that could be affected by a discharge from this facility and the seasonal sensitivity of those areas, provides for protection from, and mitigation of, any potentially adverse impact on the identified areas, and for an environmental assessment in the event of a discharge.

Signature: And Many Delina

Date: 5/8/93

Name: Anthony Delima - Marine Biologist

Signature: Wistopher liquida

Date: <u>5/18/93</u>

Name: Christopher Aquila - Ornithologist

ENVIRONMENTALLY SENSITIVE AREAS PROTECTION PLAN

This Environmentally Sensitive Areas Protection Plan has been assembled in accordance with N.J.A.C. 7:1E4.4(a)6i, ii, iii iv after a full assessment of the Environmentally Sensitive Areas Topographic Maps, as related to practical protective measures which may be implemented in the event of an unconfined spill originating at the Lancia Oil Company, Hackensack, New Jersey. This plan includes; identification of environmentally sensitive areas that could be affected by a discharge from the facility in accordance with the mapping element N.J.A.C. 7:1E-4.3(b)6, identification of all stationary environmentally sensitive systems which may have seasonal variation of environmental quality, environmental assessment of any discharge on the mapped areas, a protection strategy in the event of a spill, and possible mitigation of adverse impacts on said areas.

The emphasis of this Environmentally Sensitive Areas Protection Plan is the protection of stationary biological systems in the event of an unconfined spill flowing into surface waters of the Hackensack River. The General Site Plan, 1000' Radius Plan and field investigations have been used to determine the pathways by which an on site release of oil may flow to surface waters of the Hackensack River. In the event of a discharge from the transfer or storage areas, product flowing from the site eastward will first enter the surface waters of the Hackensack River along the site waterfront (see 1,000 Foot Radius Map).

IDENTIFICATION OF STATIONARY ENVIRONMENTALLY SENSITIVE AREAS

Wetlands associated with the Hackensack River are located down stream of the above mentioned potential discharge points. The Weehawken NE Quad (see Sheet 4 of 7) indicates discharged product will enter moderately channelized portions of the Hackensack River. Oil impact of these areas will be limited to the banked portions of the river and the water quality of the Hackensack. Waters of the Hackensack River area are classified as SE2 changing to SE3 at Jersey City by the New Jersey Department of Environmental Protection and Energy Department of Fish Fame and Wildlife (NJFGW). The reaches of the Hackensack River included within the mapping element of this report are considered fin fish migratory pathways for the anadromous blueback and alewife known to run the Hackensack and Passaic rivers to spawn during the spring and summer months. The closest down stream major wetland systems are located at confluence of Overpeck Creek and the Hackensack River continuing into the broad wetland meadows of East Carlstadt, and wetlands associated with Bellmans Creek, North Bergen. A Least Tern Migratory stopover area is documented in west Ridgefield across the Hackensack River from South Hackensack. Surface waters of Overpeck Creek are classified as FW2-INT/SE2 by the NJFGW. The Natural Heritage Data for Generalized Locations for Rare and Endangered Elements of Natural Diversity Includes these wetlands as priority sites for the preservation of biological diversity (see Attachment 1 Weehawken Grid Map). Potentially impacted endangered species for the Weehawken Quadrangle are listed in Attachment 1.

The Weehawken SE Quarter Quad indicates an extensive wetland system associated with Mill Creek and Cromakill Creek, Secaucus, NJ directly south across the Hackensack River from the Carlstadt system. The Natural Heritage Data for Generalized Locations for Rare and Endangered Elements of Natural Diversity excludes these adjacent wetlands as priority sites for the preservation of biological diversity (see Attachment 1 Weehawken Quad Grid Map). Potentially impacted endangered species for the Weehawken Quandrangle are listed in Attachment 1.

The Weehawken SW Quarter Quad represents the next major down stream segment of the mapping effort contained in this report. Major wetland systems represent a large portion of this Quarter Quad and the Natural Heritage Data for Generalized Locations for Rare and Endangered Elements of Natural Diversity includes portions of the Sawmill Creek Wildlife Management Area as priority sites for the preservation of biological diversity. Previously documented locations of potentially impacted endangered species for the Weehawken Quadrangle are documented and mapped within these areas (see Attachment 1 Weehawken Quad Grid Map north east and north west quarters).

This Quarter quad is likely to contain the natural systems known to support many species of plants and animals which have been documented to utilize the higher quality salt marshes and estuarine flats of the Hackensack River, Passaic River, Newark Bay, Kill Van Kull and Lower New York Bay system.

The valuable ecological pockets of this area are characterized by tidal marshes, fin fish migratory pathways, migratory stopover areas, breeding rookeries, and bird wintering areas. Specifically the tidal marshes of this system are know to support a significant percentage of the New Jersey populations of Canvasback, Scaup and Ruddy ducks. The tidal marshes of this system are generally of two types the lower marsh and high marsh. The low marsh, most susceptible to water born hazardous substance contamination, is vegetated primarily by the cord grass Spartina alterniflora. The high marsh is usually dominated by dense stands of Phragmities australis intermixed with pockets of Spartina patens, Disticlis spicata and Iva frutsens. The most valuable aspect of these natural systems is that they provide habitats for breeding populations of with permanent resident and seasonal resident wildlife.

The Jersey City North West Quad (see sheet 7/7) includes the waters of Upper Newark Bay, discussed above. Additionally the Natural Heritage Date for Generalized Locations for Rare and Endangered Elements of Natural Diversity includes portions of Newark Bay as priority sites for the preservation of biological diversity. Previously documented locations of potentially endangered species for the Jersey City Quadrangle are mapped within these areas (see Attachment 1 Jersey City Quad Grid Map south ease quarter.)

ENVIRONMENTAL ASSESSMENT OF DISCHARGE ON THE MAPPED AREAS:

Documentation of the wetlands associated with the Hackensack River is extensive due to Section 404 of the Clean Water Act, as the U.S. Army Corps of Engineers regulates the discharges of dredged or fill materials into waters of the United States, including wetlands. On July 1, 1987 the Governor of New Jersey, Thomas Kean, signed into law the Freshwater Wetlands Protection Act N.J.S.A. 12:B-1 et seq. which took effect on July 1, 1988. The new law establishes two new permit programs, one to regulate activities in fresh water wetlands and one to regulate activities in open tidal waters of the State of New Jersey. As these areas have been under development pressures, numerous applications and reports have been filed with the NJDEPE. These reports and applications are now filed with the State Agency and the U.S. Army Corps of Engineers' Philadelphia and New York Districts have signed and agreement with New Jersey Department of Protection and Energy (NJDEPE) promulgating delineation of Federal and State regulated waters and wetlands within the Stat of New Jersey to the NJDEPE. Under this agreement the NJDEPE is the lead agency with respect to the Wetland delineations, pollutant discharge levels and stream enroachment activities. In the event of a post discharge assessment of areas mapped in this report, accurate base maps of wetlands and water quality associated with surface waters of the Hackensack River will need to be generated from prior Wetland Delineations, Stream Enroachment and NJDEPPDES applications and reports. Accurate assessment will be possible upon a reinspection of past information in comparison with post discharge field information and laboratory results.

PROTECTION STRATEGY IN THE EVENT OF A SPILL:

In the event of a discharge from the transfer or storage areas, product not contained on site within the dyked containment area, flowing from the site will first enter the surface waters on Hackensack River along the site water front (see 1,000 Foot Radius Map). Flow entering the storm drains south of the site #'s 30" and 42" will discharge into the Hackensack River north of Route 80.

The realistic objective of off site containment equipment deployment is to protect the geographically stationary biological systems. Geographically stationary biological systems such as wetlands and rookeries often accumulate hazardous substances within the benthic layers of the system. Subsequently long term adverse impacts due to contamination of benthic layers may compromise the environmental quality of these areas. As there are several stationary systems down stream of the site, the order of deployment should be prioritized according to the flow schedule.

In the event of an insoluble discharge, containment booms should be immediately deployed across the discharge point with enough slack in the boom pool to contain the spill upon exiting the site. Containment booms should remain in place until all oil and detergent contaminated surfaces have been decontaminated. In the event that site waterfront containment is not successful for any reason, a defensive strategy shall include placement of booms at the confluences of downstream wetland drainage/fill points and flats associated with the Hackensack system. This defensive strategy should be employed in conjunction with an aggressive clean up strategy. Aggressive clean up will protect smaller undocumented and potentially unprotected wetland pockets.

MITIGATION OF ADVERSE IMPACTS

Mitigation of oil impacted areas is possible by various methods of biological augmentation in order to promote the decomposition of new and weathered oil mats. Physical scraping and removal are also effective steps prior to biological augmentation procedures. Mitigation measures may also require supplemental wetland improvements be made ni unimpacted systems in order to promote bio-diversity compromised within impacted areas.

SEASONAL SENSITIVITY

There are diverse population of flora and fauna documented to utilize the higher quality salt marshes and intertidal flats of New York System. The New York System includes the Hackensack River, Passaic River, Newark Bay, Kill Van Kull and lower New York Bay. Several of these valuable ecological pockets are habitated by seasonal populations. The seasonal use areas include tidal marshes, fin fish migratory pathways, migratory stopover areas, breeding rookeries, and bird wintering areas. The New Jersey Natural Heritage Data Base documents these tidal marshes as supporting a significant percentage of the New Jersey's canvas back, scaup, and ruddy ducks. The tidal marshes within the New York system is generally categorized by two types of intertidal wetlands, the lower marsh and high marsh. The lower marshes are more susceptible to water born hazardous substances disturbances due to regular tidal inundation. The low marsh cord grass Spartina alterniflora, known to provide spauning areas for sclupines and fin fish, is particularly sensitive to contamination in the early spring months while the annual populating is germinating in the established beds. The high marsh is usually dominated by extensive dense stands of Phragmites australus and smaller pockets of Spartina patens, Disticlis spicata and Iva frutesens. The high marshes of the New York system are documented to support and provide suitable habits for breeding and migrational water fowel populations.

The open waters of the Hackensack and Passaic Rivers are classified as SE2 and SE3 and provide migratory pathways for both the blue back and alewife. These two fin fish are know to run up stream in the spring and summer months for spauning. There are many small wetland fingers potentially impacted by a water born spill however the largest system supporting the most diverse populations is the Sawmill Creek Wildlife Management Area (SCWMA).

SCWMA has two fill and flush points which should be boomed in the event of a spill; these included Sawmill Creek and Kings Creek. Berries Creek and Berries Canal should in no way have their flow restricted during deployment procedures as these water sources are documented to contain high levels of contaminates. Additional isolatory measures should be deployed to Sawmill Creek and Kings Creek during the summer months. This practice will promote the continued breeding of Sterna antiallarum (least tern) within the SCWMA. Seasonal protection may be necessary to safeguard the Shooters Island Heron Rookery located in south Newark Bay, and the least tern nesting area in west Newark Bay located adjacent to and north of the main barge key. Additionally, the wetlands of Jersey City located downstream of Kearny Point, and wetlands associated with Bayonne Park are documented to support populations prior to Shooters Island. There two areas will require protection prior to Shooters Island. Newark Bay is "slow moving" body of water and will provide a time lag before surface contamination impacts.

ATTACHMENT J



State of New Jersey Department of Environmental Protection and Energy

Division of Environmental Safety, Health and Analytical Programs Trenton, NJ 08625

Scott A. Weiner Commissioner

Gerald P. Nicholls, Ph.D. Director

CERTIFIED MAIL 373 556660
RETURN RECEIPT REQUESTED

JUN 15 1993

Mr. Ugo Lancia, President Lancia Oil Company 340 South River Street Hackensack, NJ 07606

Re: Discharge Prevention, Containment and Countermeasure Plan and

Discharge Cleanup and Removal Plan Approval

DIFF#: 022300368000 Lancia Oil Company 340 South River Street

Hackensack City Hudson County

Dear Mr. Lancia:

The Bureau of Discharge Prevention (bureau) is pleased to inform you of the approval of the Discharge Prevention, Containment and Countermeasure (DPCC) Plan and the incorporated Discharge Cleanup and Removal (DCR) Plan for Lancia Oil Company. The DPCC/DCR plan was deemed administratively complete on January 12, 1993 and technically reviewed by the bureau in accordance with N.J.A.C. 7:1E-1.1 et seg. Implementation of the DPCC/DCR plan shall begin immediately upon your receipt of this approval. A copy of the approved plan shall be readily available onsite at all times.

Please note that the bureau is suspending enforcement of the financial responsibility requirements. However, Lancia Oil must review its financial standing at the end of each fiscal year in order to determine whether it is financially able to obtain the required financial responsibility. Please note that the suspension of enforcement does not in any way eliminate or limit Lancia Oils financial responsibility in the event of a discharge.

The bureau will conduct inspections of your facility to verify the successful implementation of upgrades for the prevention and control of discharges in accordance with the schedule included in the DPCC/DCR plan and for overall compliance with the approved DPCC/DCR plan. Failure to comply may result in the assessment of civil administrative penalties and the revocation of this approval.

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7-

SUMMARY REPORT

LANCIA OIL COMPANY HACKENSACK CITY HUDSON COUNTY

DIFF# 022300368000

The DPCC/DCR Plans for this facility were received by the Bureau of Discharge Prevention on October 13, 1992.

Upon administrative review the plans were found to be incomplete. Additional information was requested on October 29, 1992 and was received on November 23, 1992. Upon review of the additional information the plans were found to be incomplete. Additional info was requested on December 15, 1992 and received on January 12, 1993. The plans were deemed administratively complete on January 12, 1993.

Technical review of the plans commenced on January 12, 1993 with an approval/denial deadline of July 12, 1993.

A technical review site visit was conducted on March 19, 1993.

On April 19, 1993 a technical deficiency letter was sent to the facility. The facility response was received on May 25, 1993. On June 4, 1993 a second deficiency letter was sent to the facility. The facility response was received on June 14, 1993. The plans were deemed technically complete on June 14, 1993.

This facility has an approximate storage capacity of 1,215,000 gallons and is an on shore storage and transfer terminal which handles #2 fuel oil (1,200,000 gallons) and kerosene (15,000 gallons).

Upgrades planned for this facility are summarized in the attached photocopy.

It is recommended that the DPCC/DCR Plans for this facility be approved.

Priit R. Pals

Principal Environmental Engineer Bureau of Discharge Prevention

Date: June 15, 1993

ATTACHMENT K

Division of Publicly Funded Site Remediation Office of Site Assessment

Report of Phone Call

Date: 2/22/94
Time: 3140
Site Name: Lancia Oil
Location: 340 South River Street
Caller: Andrew Cyt
Person Contacted Pegsy Mac Intire Phone No. 646-3818 BILL Pept.
Affiliation Tyx Assessor
Summary of Call I First called the Heckensack
Brilling Dept, and ast of they had any Files
or COs on 340 South Raver Street the
Building Popt stat the Tex Assessors office
nould have the information and transferred
Me Ms Pegsy Nacintine Stated that the
Building was Constituted in 1976 and Lancia Oil
uns listed as the only occupient. The Two Asses
office > located at 65 Central Ave
Room 206 Hr 900-400
Poll Va

Signature ATTACHMENT ____

ATTACHMENT L

NEW JERSEY STATE RIGHT TO KNOW FACILITY/CHEMICAL INFORMATION

1 OF

PAGE:

DATE: 02/14/94

ACILITY LOCATION

ANCIA OIL COMPANY

TTN: UGO LANCIA

340 SOUTH RIVER ST.

HACKENSACK, NJ 07601-

40 S RIVER ST HACKENSACK CITY

HACKENSACK CITY, BERGEN

IN: 16808000000 PREVIOUS EIN:

TYPE: PRIVATE

SURVEY YEAR: 1992

IC 5172 - Petroleum and Petroleum Product Wh

CONTACT _____

EMER: GARY COYLE

MANAGER

(914) 735-6576

OFFICER: UGO LANCIA

PRES.

(201) 342-5454

PD:HACKENSACK PD

(201) 487-1200

FD: HACKENSACK FD

(201) 646-7778

STATUS: AACTIVE FACILITY

URVEY RETURNED: 02/24/93

URVEY AMENDED: / /

FACILITIES:

EMPLOYEES: # EXPOSED:

2

PAGE:

DOT:

2

FACILITY: LANCIA OIL COMPANY

Substance #: 2648

CAS #:

Substance Name: NAPHTHA, PETROLEUM see PETROLEUM DIST

Product Name: Location: # Exposed:

Hazard:Fire

Percent:

Physical State: Liquid

Max Daily Inv.: 101 - 1,000 Avg Daily Inv.: 101 - 1,000

Units: lbs

Trade Secret:

Container Type: Above ground tank

Days On-Site:

Temperature:

Survey Year: 1992

Pressure: Ambient

Survey Type: CRTK

ATTACHMENT M



Region II 300 McGaw Drive - 2nd Floor, Raritan Center Edison, NJ 08837 • (201) 225-6116

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-01-6669

TAT-02-F-00999

MEMORANDUM

TO:

Michael V. Polito

Emergency Response Branch, U.S. EPA

FROM:

William Kowalski, TAT II

SUBJECT:

SPCC Plan Desk Review Lancia Oil Company 340 South River Street Hackensack, New Jersey 07601

Docket No.-OH-II-81-11

DATE:

June 4, 1984

In accordance with TDD #2-8403-22 an SPCC Plan Desk Review was conducted for Lancia Oil Company, 340 South River Street, Hackensack, New Jersey. The review was conducted by myself, William Kowalski of the Technical Assistance Team, on April 17, 1984 and on June 2, 1984.

Lancia Oil Company is a storage and marketing facility with a total storage capacity of 1,202,000 gallons consisting of #2 fuel oil and gasoline. The facility has been in litigation with EPA for the past three years. This review is a follow up of past violations to determine if areas of concern have been addressed.

OBSERVATIONS:

On April 27, 1984, I contacted Biggs Engineering Associates, P.O. Box 209, Washington, New Jersey 07882. The current SPCC Plan for Lancia Oil Company was prepared and certified by the Biggs Engineering firm. Charles Biggs stated that he was unsure if all items which were proposed in a letter to Henry Gluckstern (EPA), dated May 25, 1982 (see Attachment #1) have been implemented at the facility. He stated he would consult with Ugo Lancia (President) and get back to me. At approximately 1345 on April 17, 1984, I received a call from Ugo Lancia who stated that all areas of concern as addressed in the aforementioned memo had been noted and implemented except the secondary containment volume. After discussing the high priority on this concern, Mr. Lancia stated that he had planned to do some repair work on his north side dike wall which had been damaged by a crane on April 16, 1984.



BIGGS ENGINEERING ASSOCIATES P. O. BOX 209

WASHINGTON, N. J. 07882 TELEPHONE 689-1004

May 25, 1982

Mr. Henry Gluckstern, Esquire Water Enforcement Branch 26 Federal Plaza New York, New York 10278

Subject: Lancia Oil Company, Hackensack, N.J. Spill Prevention and Control Plan

Dear Mr. Gluckstern:

This is being written at the direction of Mr. Hugo Lance as a response to your letter of April 12, 1982. We wish to advise as follows:

- 1. Referring to our drawing Proposed Alterations, Spill Control Plan for Lancia Oil Sheet 2 of 2 dated October 27, 1981, you will note that the ground surface is pitched to direct possible spills at the loading rack south-eastward into a catchment area.
- 2. The north wall of the dike has been reconstructed with compacted clay fill material obtained off-site.
- 3. The inside of the existing block dike wall will be coated with bituminous sealing compound in those areas where earth (clay) fill is not to be placed against both the inside and outside of the wall.
- 4. The existing soil at the site is tight clay. We have determined this from test borings which were made for the garage and office in 1975 and from the logs of the borings made by the New Jersey Department of Transportation for the Route 80 Viaduct on the south side of the Lancia property. This clay is impervious to oil.
- 5. We are not sure what you mean in the phrase "hydrostatic pressure wave". We do not believe that there would be a wave of oil hitting the dike; this could only happen if there were to be a massive rupture of a tank permitting the contents to discharge

Page 1 of 2 ATTACHMENT My

Attachnewt #1

instantaneously. Instead, it is more likely that there would be a gradual flow. We also were concerned about the strength of the block—wall, and on our drawing have shown earth fill to be placed on both sides of the existing wall and the use of pilasters to stiffen the wall where it would not be practical to place the earth fill. Perhaps your inspector did not examine the drawing when he was at the site. It is our opinion that, when braced as we have shown, the wall will be capable of supporting the pressure of the oil in the event of a major spill.

6. In regard to the capacity of the diked area, we are now recommending that the dike be raised to elevation 15.0. The volumes are as tabulated:

Dike at Elev 12.0 Raise dike to 15.0, add	523,000 335,250	Gal.
Total Volume: Assume 4.8" Rainfall Volume of 42' Diam. Tank	858,250 - 44,700 - 82,900	Gal.
Net Volume :	730,650	Gal.
Gross Volume largest tank Volume occupied by foam system	800,000 85,000	Gal.
Net Volume Product Storage	715,000	Gal.

In our previous calculation we had not deducted the volume allowance for the foam distribution system. The 4.8-inch rainfall is equivalent to a ten-year storm which means that there is only a ten (10) percent chance of such a storm occurring at any particular time. We feel that this is a more reasonable approach than allowing ten (10) percent of the volume for rainfall.

7. We believe that the drawings which accompanied the Plan do indeed accurately reflect the narrative portion of the Plan.

Charles R. Biggs F.E.

Very truly yours

cc: Hugo Lance

Attachnent #1

Page 2 of 2



34C outh River Street Hackensack, New Jersey 201-342-5454

UGO LANCIA PRESIDENT

April 17, 1984

Environmental Protection Emergency Response Branch Woodbridge Avenue Edison, N.J. 08837

Att: Michael Polito,

Dear Sir,

As per our phone conversation with Mr. Kowazski on April 17. 1984. We are moving our dirt dyke on the north side of our terminal.

Dyke to be pushed out 15 feet by 200 depth to comply with your request.

Thank you.

Sincerely

Myd Janeira Ugó Lancia

A. SPCC INSPECTION FIELD SHEET 'To be completed if SPCC Regulation is applicable to Facility - see 40CFR Par	7 112.1.)	BEE ISTRUCTIONS ON REVERSE
18. NAME OF FACILITY	15.TYPE OF FACILIT	Y
LANCIA DIL COMPANY	Storage HACKENS	ACK .
South RIVER ST. HACKENSACK NJ - Block 28 28. NAME OF OWNER AND/OR OPERATOR RESPONSIBILE FOR FACILITY	BLOTIZ TAX M	
28. NAME OF OWNER AND/OR OPERATOR RESPONSIBILE FOR FACILITY UGO LANCIA	Area Code	BER // رسم را رسا
2c. MAILING ADDRESS	(201) 342-3	73 7
340 South RIVER ST., HACKENSACK, N.J 070	601	
3. TYPES OF OIL STORED AND CAPACITY OF ABOVEGROUND AND BURIED STORAGE,	2 5-1 8.1	
#1-800,000 gallows - Above ground - # #2-400,000 gallows - Above ground - #	a ruel OII	
#3-2,000 gallons - below ground - 6.	ASOLINE	
1,203,000 gallows - Total Storage Capa	ecity	
4. IS A CERTIFIED SPCC PLAN AVAILABLE FOR INSPECTION? YES NO	6/2/84	ON
6. NAME AND REGISTRATION NUMBER OF CERTIFYING ENGINEER HOT AVAILABLE	7. DATE SPCC PLAN W	AVAILABLE
Charles R Biggs	2 / 1 20	,001
NJ-PE # 9486	October 29,	1781
8. IS SPCC PLAN FULLY IMPLEMENTED! (Are the Items called for in the Plan in the interest of sp	Il prevention actually inetalized - if	observable!).
AREAS OF CONCERN (SECONDARY CONTAINS to be implemented immediately as per the oil Dated April 17, 1984. In a phone conducted u60 Lancia (Presisent), t was noted that che	MENT VOLUME) WE	ere
to be implemented immediately as per th	e meno from LA	NCIA
OIL DATED APRIL 17, 1984. IN A Phone COND	persation with	MK alamantei
UGO LANCIA (PROSISONT) IT WAS NOTED THAT CH	ANGES HAD BEEN IM	PIEMEN
9. NAME OF WATER BODY THAT POTENTIAL SPILL COULD ENTER: OR IF UNNAMED TRIE DOWNSTREAM (if known)	IUTARY, THEN FIRST NAMED W	ATERBODY
FACILITY Abuts the HACKENSACK RIV	ek	
19. COMMENTS (Include comments by owner/operator - write on back or attach extra sheets if need	ied)	
With changes IN SECONDARY CONTAINME	Nt volume ha	אוט
been implemented the facility is appli		8
DEED IMPIEMENTED FRE TREITING IS INF.	1200	
COMPLIANCE WITH 40 CFR 112. IN	ACCORDANCE	
with 40 CFR 112, 5(a), (b), AND (c), th	is spec Plan	will
have to be AMENDED, uppated showing	or changes AN	DD
have to be AMENDED, uppated showing Receptified by October 29, 1984.	0	
		•
	-	
		•
118. SPCC NO. 11b. CASE NO. Docket #	11c. NPDES NO. NOT AVAIL	LABLE
12a. INSPECTOR (sign)	N/A	
12c. INSPECTOR (print)	6/2/84	
William Kowalski (TAT)	M.	-5
EPA Form 7500-53 (9-80)	ATTACHMENT	<u>·/</u>

. SPCC INSPECTION SUMMARY SHEET			
ERCC NO. CASE NO. DOCKET	d	GATE OF INSPEC	
NAME OF INSPECTOR (Signature). OH - II - 8	/-//	DATE OF DOCUM	MENTATION REPORT
11) Man Kowalok		6/2/	, 7
NAME OF INSPECTOR (Print) WILLIAM Kowalski (T)	97)	N/	A
1. FACI	LITY		
LANCIA OIL COMPANY			
ADDRESS 340 South River Street			342-5454
HACKENSACK	New J	elsey	07601
FACILITY NAME SAME		•	
D. FACILITY LOCATION			
			· ·
PARENT CORPORATION NA			
ADDRESS			
CITY	STATE		ZIP CODE
C. WATER BODY PROTECTED HACKENSACK RIVER			
2. PUR	POSE		
INITIATION: Routine Surveillance Coast Guard Information Soil Report Citizen Information Other (specify	1.		
Spill Report Citizen Information Other (specify TYPE: Plan Preparation Plan Implementation	/.		•
Follow-up Plan Amendment 3. INSPI	CTION	-	
INDIVIDUAL CONTACTED	CTION	TITLE 5.	
UGO LANCIA		TITLE	, Dent
INDIVIDUAL CONTACTED			
NOTIFICATION N/A - DESK REVIEW		·	
4. FINDINGS	5. ATTACHMENTS	None required if f	acility in apparent compliance)
SOURCE IN APPARENT COMPLIANCE WITH SPCC REQUIREMENTS:			
MYes		NONE ATT	ACHED ALREADY ON FILE
Have adequate plan	*Detailed Observations *Photographs	s ∐ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
☐ Not subject to regulations ☐ Insufficient storage	Slides		
No reasonable spill expectation	Мар		
Plan fully implemented New facility operational less than 6 months	•Field Drawing		
Them require oberational less trail o mouths	*Comments		
□No	Telephone Conversation	ons M	
☐ No plan	*SPCC Plan	Ц	LY L
Plan not properly certified Plan does not have management approval	MALL BEOLUBED	IF FACILITY IS	NOT IN APPARENT COM-
Plan not maintained at facility manned 8 hrs/day Inadequate plan (detailed SPCC Plan review attached)	PLIANCE. If photos "SPCC Plan" to List o	not permitted, ch	neck "None" and explain. Add
Plan not fully implemented			1
Plan not reviewed within 3 years		ΔΤΙΛ	CHMENT M-6
Other		July,	

ATTACHMENT N

New Jerg

DEPARTMENT OF ENVIRONMENTAL PRECTION DIVISION OF WATER RESOURCES

INVESTIGATION MEMORANDUM

Persons Conducting Investigation Complaint No. 7170687
Savford CARRETT Date of Investigation 4/15/87
- Fort Peruss 2 Pouting
Location of Incident Lancia Oil Co 340 S. River Street
Purpose of Investigation is to impect the faility for possible werlating, dispected was suggested by USERA.
It has To was succented by USESA.
wereling and eller was and
- Janie Durale
Per ons interviewed Ugo Janeia Ouvren
Summary of Findings
Ding it investigates it was fruit that the
harter (trace Cal) had mucround on space
the lacking mean, drew strange area and in the in the
at the same of the same of the same
south sence has adjusted to the river and nouse of.
Hugas house change of get a feet
for surface water suroff. An NOV was esseed and asserba
for surface wite most. An NOV was issued and averta
thewil

ATTACHMENT N-(

INVESTIGATION MEMORANDUM

Persons Conducting Investigation Complaint No./NJPDES No.
Kathleen Beyer Date of Investigation 7/7/88
Richard White Routing TBH, SDS
Location of Incident Lancia Cil, 340 South River Atret, Hackinsach
Purpose of Investigation To inspect the terminal and clarify the requirements of the June 10, 1987 directive
clarify the requirements of the June 10:1987 directive
Persons Interviewed Mr. Ugo Lancia
Summary of Findings
Mr. Ugo Lancia told us the soil that had been contaminative
was removed purposed See manifest sheet of 5/31/38. The
Richard and I inspected the f terminal. There was evidence
of spillage. Richard and I then explained the requirements
of submitting a D. F. CC plan and NJPDES DSW permit application
He said that Buan Davage had done that We then earlied
Grain to find out were the documents were Brien said he had
fent them to ligo a day a go for his pignature. We discussed that
the plan should provide a point pource for the point pamplipaint
Brian paid he and ligo are planning to put a low point at
the routh east corner of the terminal most being at He silve as
the south east corner of the tumbral gust prior at the edge of
the river. I We ended the discussion leaving it that low will
male talklin as often as the plan and prince application are
maries. Mr. Lest cancer has 800, 000 greions of capacity in the backund 400,000 greions of capacity in the backund 400,000 greions
ATTACHMENT N-
VIII.

INVESTIGATION MEMORANDUM

Persons Conducting Investigation	Complaint No./NJPDES No Lancia O.
Kathlien Buzer	Data as a second second
Location of Incident 240 South	Routing & S
sour	Sheel Hackenjach
Purpose of Investigation Status	of DPCC plan and
Purpose of Investigation Status Clischard of to waters of the	the State.
Persons Interviewed Uzo Lania, Pasa Officer, Bran Jange, Consulta. Vinya Shihardef, Dra Summary of	dent : Gary Coil Spill Control
Jupa Shahot DEF, Dice	nt : Ram Pyarilal NIDEP, Sniche
Summary of	Findings
In the facilities & R.C. C. plan	uself discussed the ait to
for the facilities & P.C. C. plan includes increasing the contains DPCC requirements to collect	The decision made
DPCC moreasing the contains	ment capacity to fulfill
sump to apply in a new from	the toris township and receiving FUTH,
a fanitary sewer and to he at the edge of the pointh ear	have & monitoring water Lo
at the odge of the pouth eas	it corner of the property
at the odge of the pouth eas and incide the containment tanks supon approval from	area around the oil
allocation. There will be groundwater of August	
groundwater or surface wo	tu. The armen of
groundwater of surface we will be submitted within 45	(aup.)
/	Tuthleen Beyen
	\mathcal{O}

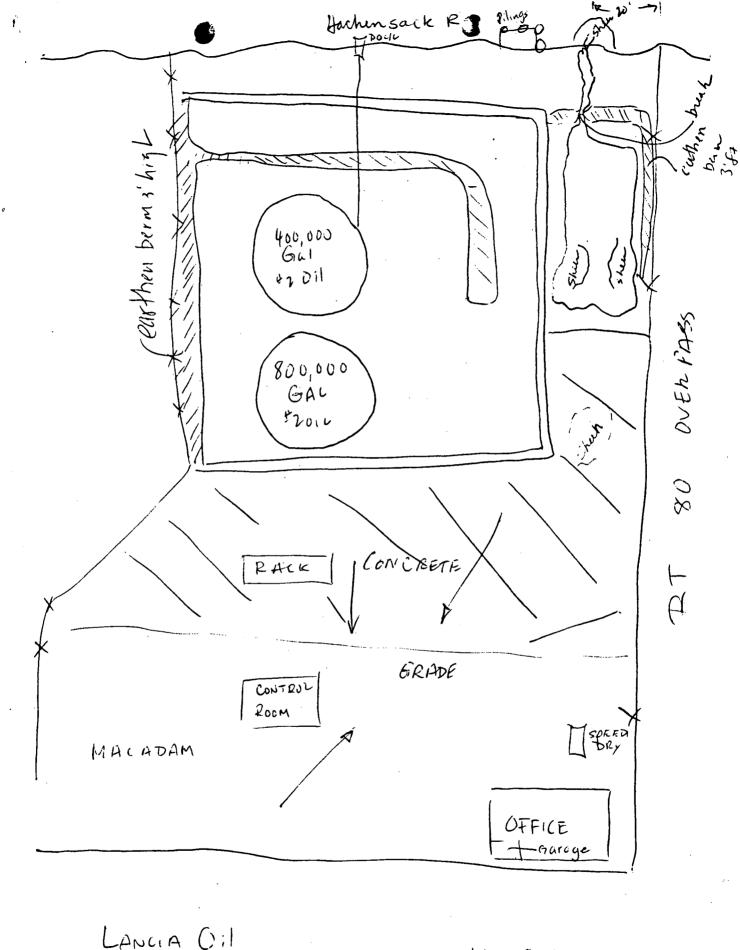
ATTACHMENT N-

INVESTIGATION MEMORANDUM

Persons Conducting Investigation Complaint No./NJPDES No. 190687
Millen Beyer Date of Investigation 5/2/89
Routing T. B. H.
Location of Incident 340 5 River Road, Hashen Sash
Purpose of Investigation To determine if a point some discharge lx 15ts and verify their possession of a 300ft Boom.
exists and verify their possession of a 300ft Boom.
ζ.
Persons Interviewed Mullow Janua, Pundent, Dary (assistant)
Summary of Findings
Rolar and a annel at the terminal and went into the office to
strah with Mu Ugo Jancia. Kathlen asked Mr Jancia for permission
to propert the gravel area near the Hackensach River Mr Januagaid
it would be on. Rodger and I went out, walking over the penedarea
and on to the gravelled area. There was a visible vil sheen on
the pareciares. In the gravel area there was a Jarge puddle. At
the edge of the puddle was oil slighed gravel and a shut was very
visitle Sie attached diagram. The puddle drained through a
treating on earther 4 ft high wall. The water had formed a
whilet. The sweelet went down the won bank. a vil pheen war
recitle at the entry point to the over approximately 20 ft morth of
tancor fince. The sun was about lift into the sine Rodge and I
returned to the spice Kathlien requested to show the areas + have
setured to the office Kathlier requested to show the assistant buy
West it had seen a lary latteler and Rodger went back Kathier
soint out to Sary the sources of the sheen and the oil sheen in

INVESTIGATION MEMORANDUM PAGE 32

the Hackensach Day paid the oil deched gravel was weefrom a
truck that had her totaled on Tent Tumpike He paid that
the truck rolled on the tumpihe and the towing perskis had
left it on the graveled ares Kathleen Rodge and Lary returned
Lette ffire Kuthleen called Mr. Tom Harrington. Hr. Lancia
pictud up the other extension. The three way conversation
desiussed the existing problem and the remedial action A
NOV was issued for the poor househuping of the oil pliched
gravel. He Sancia agreed to remove the gravel appropriately
Rodger, Day, and Kuthleen went to the garage to
at the from Lancia well use the from in an event
of a spill the toom is gust inside the garage door. Ih.
Lancia had told Kathleen that he has 240,000 gallon to 2
oil in inventory. The Hahlo capacity is 1.2 M. He added he
pever has moughan 400,000, n 500,000 tops.
The inspection found a non point source discharge of storm
water with a visible pheer. Tance has available a from in
the rent of a spell. Kathleen



LANCIA (:1 340 S. ZIVER Road Huckensuck 5/2/89

Not to Scale

ATTACHMENT N-6

INVESTIGATION MEMORANDUM

Persons Conducting Investigation	Complaint No./NJPDES No. 19-0687
RODGER FEDAK	Date of Investigation 7-/7-89
RUDGER TERM	Routing BHEK Kup me for
	Routing 121 CASH T
Location of Incident 340 S. R	INERKOAD, HACKENSAUK
LANCIA OIL	
Purpose of Investigation Follow)-UP TO SITE CLEANUP
·	
	•
	sistant to owner president
Persons Interviewed OARY - ac	sistant to ourly presidence
(UGO Laurin)	
Summary	of Findings
NO CLEANUE OF THE OIL	CONTAMINATED SOIL HAS
THE DIACE GROW TO	FORMED THE INVESTIGATOR THAT
JAKEN FLACE. STIERS	1245 PETURITED Him FROM
MR. LANCIA'S POOR HEALTH	HAS PRECEDIZED HIM FEELE
ATTENDING WORK TO OVERSE	e the CLEAN UP. R. FEBAR
TOLD GARY THAT TO CLOK	IN UP COULD BE CONDUCTED
WITH SITE MIZ. LANGIA. GARY	I SAID WHIN AR STOKE TO
ME LAIRIA TEMPERON (7-	18-89) NE WOULD CALL R. FROAK
AND INDICATE Whoat THE	WHALL UP WOULD COMMENCE.
And Pic Dection of the	SITE NO NOT ROVERL A DISCHARGE
- 1 2 JA BOT AS	HER WAS OBSERVED BLOKE
TO THE RIVER, BUT	FIRE TILLIFON KELA.
The PIER & FILINGS AT. The	DAKER FILL TELLING
K. FELAK TO KE-MSPECT STE	E WILD CLEANUP IS SCHONULD.
•-	
	,

INVESTIGATION MEMORANDUM

Conducted by: Barbara E. Cutler NJPDES No. NJ0069787, Application January 14, 1992

Lancia Oil Company 340 South River Street Hackensack/Bergen County

There was a light rain in the morning of the 14th. About 12:00 noon, there was a heavy down pour which lasted about 15 minutes. I arrived at the site about 2:00 pm. I met with Gary Coyle, Sales and Station Manager and he conducted a tour of the facility.

Due to the rain, there was puddling on the cement loading area. These puddles had an oil sheen.

On the site there are two oil storage tanks, one has the capacity of 800,000 gals. the other has the capacity of 325,000 gals. According to Mr. Lancia, the owner, these tanks are only partially filled.

The two tanks have a cinder block wall containment about 5 feet high which surrounds three sides of the tank field. The forth side is constructed of a soil berm which is along the perimeter of the property, this line being perpendicular to the shore line. Horizontal to the Hackensack River, is a partial soil berm which is in line with one side of the cinder block wall. However the berm has not been extended to the wall therefore leaving an open area. This opening is about 6 yards from the waterline? A soil berm is also along the other perimeter of the site perpendicular to the river.

Within the berms is an area which is cemented that includes the office, loading area and the parking lot. The cemented area is located in the front of the property about 30 yards from the river. The remaining area of the site up to the river, is uncovered ground.

A NOV was issued requiring Lancia Oil Company to close in the open area near the river by continuing the berm to the cinder block wall.

At the time of the investigation, Mr. Coyle of Lancia Oil could not produce a SPCC plan.

Mr. Lancia called January 15, 1992 to say he would close the opening in the bern as soon as possible. In the spring he plans to construct a concrete rim around the cemented area. He also said he will look for the SPCC plan. If he could not find it, he plans to have one written.

ATTACHMENT N.A

ATTACHMENT O

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INVESTIGATION FEMORANDUM

A Company of the Comp	Complaint No. AUPDES No. 190687
	Complaint No. / No. / / / / / / / / / / / / / / / / / / /
SANFORD CARRECT	Date of Investigation 5/14/87
	Pouting
Location of incident Lancia Oil	<u> </u>
location of including Some in Contraction	
0	1 1 1
Purpose of Investigation Rangeling	of soil from Excavator
enca.	
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Fer ons interviewed Ugo Lancia	
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	nei-ne
Summery of Fi	
Sangles were taken from to	a example andine
8 1 43111 was lake 20th	Moh the out for factor
	I was a fine alwell so Me Lagran
At a con at a depth	of oin sure
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and the control of the state of	Mind at the an in the second
Le TI ca Prote Rack Off	6 ranen from
and I the finish & All sungle	En were talen often the
at light of beach 5. All surgh execution of geterdam gradual	till wil che the
examples of generaling from	in I catelan A ail
exercited area along the fence	1 has been forced of
(liquid) in the newly excaveled	areas Victores every laron
of the field.	

RECEIVED
DIVISION OF
WATER RESOURCES
ENFORCEMENT ELEMENT

CHAIN OF CUSTODY RECORD

Aug 14 | 03 PH '87

NAME OF UNIT AND ADDRESS: NJ DEP/WR 2 Bubback Place_ Number SAMPLE of NUMBER Containers 43111 43112 43113 13115 H 3116 11 no sheets for sample S PERSON ASSUMING RESPONSIBILITY FOR SAMPLE: TIME DATE SAMPLE NUMBER RELINQUISHED BY RECEIVED BY: TIME DATE REASON FOR CHANGE OF CUSTODY 5/20 CARING DON LAF 43/11 2:W 43112 OH RECEIVING AREA DOH RECEIVING AREA SOOH RECEIVING AREA FOH RECEIVING AREA REPORT SUBMITTED NJOCH ENVIRONMENTAL CHEMISTRY LABORATORY ATTACHMENT

FACILITY DIC	STATE OF NEW JERSEY Department of Environmental Protection Division of Water Resources SOIL WATER ANALYSIS JINTY BEISEN EATION 340 South River St LE Owner COLL NAME S. Guirrett 221 190	BACT. LAB NO. DATE REC'D. DIANN DE CHISTODY DATE REC'D. STORET ENT. READ
STATI	ON IDENTIFICATION NUMBER YR. MO. DAY	HOUR
sc,	8705201	130,
Water Temp	P Petroteum hydro P P P P P P P P P P P P P P P P P P P	METER VALUE RMKS. , 16943 J, , , , , , , , , , , , , , , , , , ,
	P	, , , , , , , , , , , , , , , , , , , ,
BIOCHEMICAL OXYGEN DEMAND INITIAL D.O. (lab.) SAMPI SEED YES NO CONC. % NO BOD S-DAY P310, NO G6-DAY P312,	P P P P P P P P P P P P P P P P P P P	
DATE J. QC OU	CHAIN OF CUSTODY FROM (NAME)	CAT SUBMITTED
Chemist Review		AUG 4 1987 OH ENVIRONMENTAL MISTRY LABORATORY - Water Resources Copy(For Transmis

FORM VST-010 8/79 PLEASE TYPE OR PRINT WITH BALLPOINT PEN MUNICIPALITY FIG. New Sac FACILITY LOCATION REPRESENTATIVE LIGHT FAMILIA REMARKS	190 South Kiver) Coll NAME INTO Significant 221 100	EHAIN DE	DATE REC'D. STORET ENT. READ	>\ 5/20/x2
STATION IDE			OUR	
[s c ,		20 11]3 5 ,	
FIELD ANALYSIS	ANALYSIS UNITS	PARAMET	rer vai	LUE RMKS.
Water Temp OC P10	Petro hydro mg/kg mg/kg mg/kg mg/kg	P	, 5 U4 , , , , , , , , , , , , , , , , , ,	<u>,</u>
Tot coli P31505, P31505,		P P	, , ,	,
BIOCHEMICAL OXYGEN DEMAND INITIAL D.O. (lab.) SAMPLE SEED YES NO CONC.% BOD		P P P	,	,
☐ BOD ☐ 5-DAY P310, ☐ 6-DAY P312, ☐ ☐ 6-DAY P312, ☐ ☐ 6-DAY P312, ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	ATTACHMENT O-Y	P	FOOD FOR	
DATE - TIME	CHAIN OF CUSTODY		TO (NAME)	EMITTED'
J- RI OI	FROM (NAME)		AUG 4	
Chemist Review	Part 1 - Water Quality Inventory (C	NUDOH ENVIR CHEMISTRY LA	ONMENTAL

Chemist Review

- Water Resources Copy (For Transmi

Quality Inventory Conv.

ATTACHMENT P

CASE: Lancia Oil 340 South River Street Hackensack, NJ

CASE HISTORY: On 4/15/87 NJDEP conducted an industrial survey of Lancia Oil in response to an EPA request. The inspection revealed oil product spills throughout the transfer and loading area. Lancia billing area. for product spills and poor house keeping practices.

On 6/10/87 Lancia Oil was directed to cease the discharge of oil products, clean and properly dispose of contaminated soil, and obtain a DSW permit.

On 10/2/87 a late letter directive was issued to Lancia for not responding to the 6/10/87 letter. On 4/6/88 DWR issued Lancia Oil a Final Notice directive to comply with the 6/10/87 directive.

On 5/2/88 Lancia Oil responded to DWR's final notice directive.

ACTION RECOMMENDED:

- 1. Make sure Lancia applies for DSW permit. (Copyr, application)
- 2. Monitor contaminated soil removal and PROPER disposal.

submit manifest under lout?

Tues/Truis

5/13/ 2.6 Carlei end Viennessi (2) applitudion

CASE MANAGEMENT / ORDER TRACKING SYSTEM CASE: Lancia Oil NJPDES #: LOCATION: South River Streer COUNTY: Bergen TOWN: Hackensack CASE MANAGER: Rodger Fedak DATE ASSIGNED: 6/1/88 SUPPORT GROUP: None DATE CLOSED: 8/24/89 PRIORITY (1-4): 4 GROUP: JBC TYPE OF ORDER: PROGRAM: ŚWI PENALTY: DESCRIPTION Illegal surface/ground discharge DUE DATES: oil cont soil removed in spring 1988, Lancia called 11/16 is 2: working on DPCC and permit, wait for 1/13 for action from Ugo, 3: if no action require SW permit, status rept due 1/20, get copy of 4: LO ltr to BIS, inspect during rain storm for conf of no disch 5: insp 5/5 no disch, insp for cleanup of gravel w/oil due 7/7 6: insp 8/24, site cleaned, ***********CLOSED************** Barbara, Please inspect to paparet application only.

8:

10:

12:

13:

15:

17:

ATTACHMENT Q



340 South River Street Hackensack, New Jersey 201-342-5454 PRESENTATION OF SEVENT OF SEVENT OF SEVENT

JUN 26 3 02 PM 187 LANCIA

June 19, 1987

State of New Jersey
Department of Environmental Protection
Division of Water Resources
CN 029
Trenton, New Jersey 08625

Dear Mr Sanfor E. Garrett,

We have cleaned up the containment areas and prepared sites for concrete. We would like to finish entire yard in concrete, with a small retaining wall along fence and across the back of concrete. This wall will contain and eliminate any surface water from getting into river.

I called you on June 16, 1987 and was advised that you would be out balance of week.

The other items mentioned in letter have been turned over to the Engineer (Charles Biggs) who drew the plan for Federal E.P.A.

I would appreciate a call to my office so that I will be in my office to discuss our problems.

Sincerely,

Ugo Lancia

Charles bigs P.C.

201 637 -100061

ATTACHMENT Q

ATTACHMENT R



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF FACILITY WIDE ENFORCEMENT

METRO BUREAU OF REGIONAL ENFORCEMENT 2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

(201) 669-3900

TO:

Robert Obertahaler, Chief

Bureau of Industrial Discharge Permits

THROUGH:

Peter T. Lynch, Chief Metro Dargas of Water and Hazardous Waste

Enforcement Field Operations

FROM:

Environmental Specialist Barbara E.

SUBJECT:

Lancia Of Company 340 South River Street, Hackensack/Bergen County

DATE:

March 20, 1992

On January 14, 1992 the above facility was inspected to determine if dikes were in place which would prevent any possible stormwater runoff into the Hackensack River.

Lancia Oil Company wishes to withdraw its Permit application NJ0069787 and was advised by Mr. Ramamurthy Pyarilal (NJDEPE-BIDP) that if the facility had dikes along its perimeter to prevent stormwater runoff into the river, a permit would not be necessary.

At the time of inspection, on January 14, 1992, there was a dike along the perimeter except for an opening of approximately eight (8) foot along the river side. They were instructed to close the opening and also install a berm along the concrete loading area to prevent any runoff to the adjacent ground.

On February 25, 1992 an inspection revealed that the eight (8) foot opening was closed and the berm along the edge of the concrete loading area was installed.

If there are any questions regarding this matter, please call (201) 669-3900.

> New Jersey is an Equal Opportunity Employer Recycled Paper



ATTACHMENT

INVESTIGATION MEMORANDUM

Persons Conducting Investigation	Complaint No./NJPDES No. NJOC69787
Barkera & auther	Date of Investigation 4/25/92
·	Routing &L.
Location of Incident Sancia De	L Company
340 South River Street, N	sekenseek Bergen County
Purpose of Investigation was to per	efer the presure of berms on
diken to prevent stormwater per	noff from lecting are from
extering into the Hackensuck	River. This was a Follow un
investigation to the inspection	n done on Jan 14, 1992
Persons Interviewed no bru was an	vailable at the time of the
inspection	
Summary of	Findings
an worther berm of dike	
perimeter adjacent to the	siver enclosing the Socility
This bern will prevent a	my storm) water single or
poil from asing into the	Hackensack River a maldan
"speed bump" type of per	
	rding pad. This will prevent
my possibly nontemente	
spelling onto an unpavel.	are of the facility

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2/25/92	-
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6.	ATTACHMENT R-2
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Sale

ediction of the design strains	and the second of the second o	RECFLED : DIVIDO: CE
To:	ENFORCEMENT REFERRAL FORM Chief Peter T. Lynch Metro Bureau of Regional Enforcement Element	ENTC - 1281
FROM:	Chief Robert Oberthaler Bureau of Industrial Discharge Permits Wastewater Facilities Management Element	•
DATE:	DEC 3 0 1991	
PRIORI:	TY: (Check one) High Medium Lo	wx
Name of Location	Contact Person: Tony Russo Pho F Violator: Lancia 0il Company On: 340 South River Street Hacken sack Rosson	
Permit	Hacken sack, Bergen County, New Je No.: NJ00 69787 Type: DSW x DCW	
The the fa from t	No.: NJ00 69787 Type: DSW X DGW Expiration Date tion of violation including date(s), specified and/or permit condition violated. Att Bureau of Industrial Discharge Permits noticity cited above has built dikes to prevalent to be a ding areas from entering the Hackens facility has requested withdrawal of its	ific statute, ach location maps if
See at	of actions taken by the referring Bureau of in question in order to correct non-complopies of all relevant telephone sheets and tached telephone sheets.	d correspondence.

Enforcement action requested: Verify the existence of the dikes and confirm that the site does not require a NJPDES/DSW permit.

ATTACHMENT R-

report of phone call or visit

eau or Office BIDP	
Out	File NJ0069787
9/19/91 Time AM	Routing
	•
on Contacted Mr. Ugo Lancia	Phone No. (201)-342-5454
ffiliation dancia Oil Compan	<i>H</i>
Call	dibe was bilt to travent
ect of whether as mot the o	sternwate
Call Visit	nunoff
Visit	
Ugo told me that	the dikes are in.
position and that no st	
is entering the Hackenson	ok River House
administration of the Mr. Ramami	usthis Questilal (NTDFP-RTI
b build the dit to an	urthy Oyarilal (NJOEP-BID oid being permitted.
to such these wifes to any	was pling permitted.
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on Recommended Varily the inform	aturi é call
i larrament	
T	
	ATTACHMENT R-6
	Carthery Tueso
	Signature

ATTACHMENT S

25

BUREAU OF AQUIFER PROTECTION BUREAU OF G-W DISCHARGE CONTROL BUREAU OF G-W POLLUTION ABATEMENT NUPDES DATABASE REPORT

•	MJPDES	FACILITY	CORPORATION	LOCATION	U S E	ROH	APPL. REC'D		DRAFT DATE	ISSUE DATE	EFF. DATE	DA		BUREAU	R E G	V 1	
	9 066125	KOPPERS COKE SITE	KOPPERS COMPANY,	KEARNY	_	337				870601						.F	•.
	9060852	KORD SUNOCO STN	SUN REFINING & MARKETING	MIZPAH		347	8508			860711					_	. F	Y
	0054031	KRESSON ROAD LF	TWP OF CHERRY HILL	CHERRY HILL	A	3 35		0	850215	851018	851129	7 88	1128	BAP	\$.1	
		L & D LANDFILL	WASTE MANAGEMENT OF MORTH AMERICA	MT. HOLLY		353			•	850701					c	. F	
	0034631	L & L OIL CO.	L & L OIL CO., INC.	ABERDEEN			8512			880601					C	۰،	
		L & M DISTRIBUTION CENTERS, INC.	L & M DISTRIBUTION CENTERS	BEVERLY						870701	_				-		_
	00	L & M TOOL & DIE	LEMAR REALITY CO.	S. PLAINSFIELD	B	233	8703	19	0	1)	0	U	BGWDC		ا.	•
		LEL WHITE METAL CASTING CORP	LEL WHITE METAL CASTING CORP	CARLSTADT	_	245								BGMDC			· .
	0062812	L-TEC COMPANY	INTEGRATED RESOURCES, INC.	PISCATAWAY	8	228	3 8 602	20		86081	_						F.
	0003611	L. E. CARPENTER	DAYCO CORP.	WHARTON		33		0		-	-	0	_	BGWPA	C		T.
		LACEY TWP LF	LACEY TWP	LACEY TWP.	A	TB			-	3 89031	3 89041) Y	40414	BGWDC	_		F
	0051748	LAKE TELEMARK FORMER		ROCKAWAY			5 8903			7 8 6060	o 84071		0071/	_	c		τ.
	0061778	LAKEHURST SLF	LAKEHURST BOROUGH	LAKEHURST		31					0	0		BGWDC	. H	-	F.
	0065935	LAKELAND COLD TYPE	INC.	FRANKLIN LAKES						5 89060	_						т.
		LAKELAND SLF	CAMDEN COUNTY INSTITUTION	BLACKWOOD		26	_			3 85041					c		F.
		LAKEWOOD TOWNSHIP L		LAKEWOOD TWP.		N 37				5 8 6032					c		T.
	0061085	LAKEWOOD TWP OLD LF		LAKEWOOD	•	1 31		٠		6 89040					_		.F.
	0070513	CERAMICS	CERANICS	LAMBERTVILLE		35	• (67011	0,040	,, 0,05	••••					
		LAMBERTVILLE WATER	MANUFACTURING CO LAMBERTVILLE WATER CO.	LAMBERTVILLE	-	B 35	6 880	928	88122	8 8903	15 8904	15 9	X041	5 BGMD	. N		.F
1	006978	COMPANY 7 LANCIA OIL CO	LANCIA DIL CO., INC	. HACKENSACK	,	B 11	7 880	80	В					BCMD	C M		.F.
1.		_INC.						_				_				_	<u> </u>
	006466	1 LANGER TRANSPORT	LANGER TRANSPORT COMPANY	JERSEY CITY		C 3!	50	(0 8 612	11 8712	01 8 801						.F.
	005446	1 LAVIN BROS. LF	ROCKAWAY TOWNSHIP	ROCKAWAY		B 3	55 871	111	0	0	0	0 (88091	5 BGMD	C N		.1.
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		SMDA)	BROS. SUDA)										_ .				÷
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	005487	9 LAWRENCE TWP. LF	LAWRENCE TWP.	CEDARVILLE		8 3	35			07 8503						;	.r. .7.
	906020	8 LAYTON SLF	U.S.D.I. NAT. PARK SERVICE	SANDYSTON TWP		A 3				07 8602						-	
	000377	8 LCP CHEMICALS	LCP CHEMICALS	LINDEN				041	5 8309	02 8312	13 840	201	8701	70 80W	^ '	•	.T.
	005828	9 LEHIGH VALLEY RR LI	PHILLIP & VITA LOPA	A BOUND BROOK	_	C 2	04	,	0 8 505	13 8702						<u>.</u> ,	
			*CONRAIL							-	AII	ĄC	НМ	ENT.			
			ENVIRON.CONTROL									CF	IME	NT.			.

ATTACHMENT T





State of New Jersey

Department of Environmental Protection and Energy

Environmental Regulation Wastewater Facilities Regulation Program CN 029 Trenton, NJ 08625-0029

Dennis Hart Administrator

MEMORANDUM

APR 1 5 1992

TO:

Scott A. Weiner

Commissioner

Debra Hammond

Bureau of Permit Management

THRU:

Robert Oberthaler Chief

Bureau of Industrial Discharge Permits

FROM:

William F. Boehle, P.E., Chief

Surface Water Section

SUBJECT:

Inactivation of NJPDES/DSW Permit No. NJ0069787

Lancia Oil Company

Hackensack, Bergen County

New Jersey

In regard to NJPDES Permit Application No. NJ0069787, the permittee had requested that their NJPDES/DSW permit application be withdrawn since the permittee was going to build berms and dikes around the facility's perimeter and loading area that would prevent any storm water runoff from entering the Hackensack On February 25, 1992 an inspection by the Metro Bureau of Water and Hazardous Waste Enforcement had concurred that the dikes were in place around the facility's perimeter and the berms along the concrete loading area had been constructed. As a result, no surface runoff would enter the river. As this is the case, no NJPDES/DSW permit will be required.

Please inactivate the NJPDES/DSW permit application from the computer system as no discharge to surface water permit has or will be issued for this facility.

If you have any questions, please contact Anthony Russo of my staff at 2-4860.

WFM 373:ar

c: Peter T. Lynch, Chief, Metro Bureau of Water and Hazardous Waste Enforcement.

ATTACHMENT U

PLANT ID	COUNT	Y MUNICIPALITY	BUSIN	ESS NAI	er '		PLANT NAME			PLANT CONTACT
01141	BER	LODI	FLEXW	RAP COR	RPORATION					JOSEPH SCARPA
		STACK 001 002 003 004	CERT 080186 067882 067883 067884	COND	STATUS PERM PERM PERM PERM	EXP. DAT 04/15/95 03/20/94 03/20/94 03/20/94	COMPANY DESIGNATION TOWER FANS SILO NUMBER ONE SILO NUMBER TWO SILO NUMBER THREE	LAST INS 05/07/92 05/07/92 05/07/92 05/07/92		
01143	BER	HACKENSACK	LANCIA	OIL C	:O .					H LANCIA
		STACK OOO	CERT	COND	STATUS ZERO	EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS	ВУ	
		001	062470		EXPD	12/16/93	1 MILLION GALLON TANK-12" VENT	06/22/88	088	
01144	BER	ENGLEWOOD	ENGLEW	00D,CI	TY OF, HO	SUSING AUTHO	DRITY VINCENT K TIBBS SENIOR	CITIZENS HOME		JOHN HARRIS
	•	STACK OOO	CERT	COND	STATUS ZERO	EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS	ВҮ	
		001 002	064837 087728		DELETE PERM	06/24/93 07/18/98	MAIN BOILER ROOM NO. 1	03/30/88	629	
01147	BER	RIDGEFIELD PAR	RK MID-MA	IN ENT	ERPRISES		MARLBORO HOUSE			ROBERT BENOIT
	•	STACK OOO	CERT	COND	STATUS ZERO	EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS	ВУ	
		001	062875	•	PERM	07/25/98	INCINERATOR STACK	04/14/93	027	
01149	BER	SADDLEBROOK	SALERN	OS KIT	CHEN CABI	NETS INC.				ROSS SALERNO
		STACK OOO	CERT	COND	STATUS ZERO	EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS	BY	

^{****} DENOTES UNDEFINED STATUS

ATTACHMENT V



BUREAU OF AIR POLLUTION CONTROL

APPLICATION FOR

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQ

AND

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

TO: New Jersey Department of Environmental Protection

Bureau of Air Pollution Control

CN- 027

Trenton, New Jersey 08625

	Read Instructions Before Completing Application
	1. Full Business Name ANCIA CIA CO 2. Mailing Address (No.) (Street) (City) (State) (Zip Code)
	3. Division and/or Plant Name SAME 4. Plant Location (No.) (Street) (Municipality) (County) (No.) (Street) CENTER WITH DIKE S
	5. Location of equipment on premises((Bldg., Dept., area, etc.) 6. Nature of business ** ** FUEL OIL.* 7. Estimated starting date of construction
	8. Date equipment to be put in use
2 1010	REASON FOR APPLICATION (CHECK ONE) New Equipment without Control Apparatus New Equipment with Control Apparatus New Control Apparatus on Existing Equipment Painting Tank White Five Year Renewal of Certificate No. (s) Other (Explain)
	STACK INFORMATION (EQUIVALENT STACK INFORMATION) 1. Company Designation of Stack (s) 2. Previous Certificate Numbers (if any) 3. a. Number of Sources Venting to this Stack 4. Distance to the nearest Property Line (ft.) 1. STACK INFORMATION) 1. VENT ON YOP 1. (Complete a separate VEM-004 for each source) 2. VENT ON YOP 1. (Complete a separate VEM-004 for each source) 3. A. Distance to the nearest Property Line (ft.)
SECTION	5. Stack Diameter (inches) 6. Discharge Height Above Ground (ft.) 7. Exit Temperature of Stack Gases (°F) 8. Volume of Gas Discharged at Stack Conditions (A.C.F.M.) 9. Discharge Direction
	mation supplied on applications VEM-003 and VEM-004, including the data in supplements, is to the best of my knowledge correct. Mar - 16 - 195 - 200

This application will not be processed unless proper fee is submitted.

FOR ASSISTANCE CALL (609) 292-6

(over)

,	Total Amount Batchlb/batch,hr/batch
	Fotal Amount Materials Processed Continuous Batch Continuous Batch Batch Batch Batch Batch Batch Raw Materials Saw Materials Saw Materials
— В.	FUEL BURNING EQUIPMENT
1.	Gross Heat Input (10 ⁶ BTU/HR) Internal Combustion Engine Type Heat Exchange Direct Indirect Internal Combustion Engine
~~~	的现在分词,这种是一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,这个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的
	a. Type of Fuel:
	b. Heating Value (Btu/lb):
7.	Amount Burned/Yr.  Units: Solid Fuel (Tons)  Liquid Fuel (10 ³ Gal.)  Gaseous Fuel (10 ⁶ Ft. ³ )
^	Constitute of Warts (e)
_	1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Amount Burned (lbs./hr.)  Type of Auxil. Fuel (If Any)
D	STORAGE FACILITY IMILION 9761  Tank Contents 30,000 BARREAS 2 FUEA
~	Transform Pin San Arix And Height or Length (Ft.)
3	Conscitut 70 14 (103 Ft.3) Equivalent or Actual Diameter (Ft.)
	Million (10 Gal.) W
·	THE REMAINING QUESTIONS ARE TO BE ANSWERED ONLY FOR LIQUID STORAGE  Vapor Pressure at 70°F (PSIA) O.069  Storage Temp. If Not Ambient (°F)
	Filling Rate (Gal/Min) Annual Throughput (102 Gal/Tr) 14 Million /41 - 140
	Method of Fill  Other (Explain Below)
	Color of Tank  White Other Exposed to Suns Rays Yes No Insulation Data for Insulated Tanks (Volatile Organic Substances)
8	Type, Thickness (Inches) Thermal Conductivity (BTU/HR/FT ² /°F)
L	BARGE DELIVERY & IRUCK
. <del>*** *</del> . ****	For Department Use Only
:	ATTACHMENT

ATTACHMENT W

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70 COMPLIANCE			
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C-In Compliance

NIOP- Not In Operation

VIO -Violation Cited

#### PLANT INSPECTION REPORT FORM

Company Name A ALL LE	7 013				
Company Name ANCING Location RIVER		ON FINO	1.0.9 <u>C</u>	1173	Month
Location 12 1VIET	75/20		City 🚜	ALKENSAL	48
Date of Inspection 8	11/86 Time	11:30 INSPE	CTOR <u></u>	NENNESS.	605
Person(s) Interviewed_	MR. U	LANCIA			
Title(s)	OWNER		,		

62470	COMPLIBNEE			APEDS
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Additional Comments and Recommendations NJAI EQUIPT CONSIST.

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TOTAL OF \$ 1-2 MILLION LAL. CAPACITY

3 FILE

DEQ-062 1/88

### NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL QUALITY BUREAU OF ENFORCEMENT OPERATIONS

PLANT	INSPECTOR
ID#	ASSIGNED
01143	088

#### FIELD INVESTIGATION ASSIGNMENT REPORT

DATE	DATE
ASSIGNED	DUE
5-2-88	7-2-65
DATE COMPLETED	COUNTY
6-20 51	BERGEN

LOCATION TOPEN STATE HACKENS ACK	TYPE OF ASSIGNMENT CYCLE Complaint APEDS
CDS CLASS: A1 A2 B NSPS NESHAPS PSD	Order Followup
AIR GRANT (105): Yes No PLLT: PT S2 CO NZ	
COMPLAINANT NAME	PHONE #
COMPLAINANT ADDRESS	
DATE RECEIVED TIME RECEIVED RECOR	RDED BY
ASSIGNMENT	
PLANT CONTACT Ms. hancia SUBCHAPTER # INSP	COMPLAINT TYPE NUMBER
ARRIVAL TIME AT PLANT 200	Time/Date at
ARRIVAL TIME AT PLANT 7.2	Complainant/
TOTAL ASSIGNMENT TIME 72 8 1  STACKS INSPECTED /_ TEMPS	Verified: ☐ Yes ☐No
TOTAL SOURCES INSPECTED	Give details below  VIOLATION FOLLOWUP INSPECTION
DEQ-012 COMPLETED FOR SUBCHAPTERS	Violation Log #
OTHER	Order Dated
TYPE SAMPLE COLLECTED	Subchapter Violated Yes No
# OF SAMPLES COLLECTED	Give details below
COMMENTS (by code)	- CNO GOLLES CO.
DETAILS OF INSPECTION	
NJOOI - No changes at plant - 1 #23	Luel Oil tank -
0 .	
<u> </u>	
	ATTACHMENT W-
	INSPECTOR'S SIGNATURE
	Hohad Expert
	TITLE: Sand Ell Field
SEE ATTACHED FOR ADDITIONAL INFORMATION: YES NO	SUPERVISOR'S REVIEW INITIALS: DATE:

ATTACHMENT X

# APPRAISAL OF WATER RESOURCES IN THE HACKENSACK RIVER BASIN, NEW JERSEY

By L. D. Carswell

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations 76-74

Prepared in cooperation with

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL

PROTECTION, DIVISION OF WATER RESOURCES



June 1976

ATTACHMENT 1-1

#### Lockatong Formation

The Lockatong Formation has been identified at only one location, North Bergen, in the Hackensack River basin. Here it consists of argillite that has been altered to hornsfels during the emplacement of the adjacent diabase sill (Van Houten, 1964, p. 500).

The Lockatong overlies the Stockton Formation and is overlain by the Brunswick Formation. Laterally it intertongues with both the Brunswick and the Stockton Formations.

The Lockatong Formation is composed of cyclic units of chemical and detrital origin that average 15 feet in thickness. The detrital deposits are mudstones composed of abundant sodium feldspar, calcite, illite, and chlorite with very little quartz and potassium feldspar. In the chemical deposits the mudstone contains abundant analcime, albite, dolomite, calcite, illite, and chlorite. Dolomite and analcime casts of skeletal glauberite (and possibly anhydrite) crystals are common in some of the chemical deposits (Van Houten, 1965).

The formation is 90 feet thick at North Bergen. It thins northward and is entirely missing at the New York-New Jersey State line. It presumably thickens south of North Bergen and is 3,750 feet thick in western New Jersey and adjacent Pennsylvania.

#### Brunswick Formation

The Brunswick Formation overlies the Stockton Formation and forms the bedrock throughout most of the Hackensack River basin. It is reddish-brown and composed of mudstone, siltstone, sandstone, and conglomerate. In the southern part of the basin mudstone is the dominant lithology. The deposits gradually become coarser grained northward (Kümmel 1898, p. 43 and Savage, 1968) so that in the northern part of the basin in New York the Brunswick consists largely of sandstone and commonly contains beds of conglomerate.

Gypsum and glauberite are reported to occur in the Brunswick Formation. Herpers and Barksdale (1951, p. 37) have reported the presence of gypsum from well borings in the Newark area just south of the Hackensack River basin. Glauberite has long been known to be present locally in the Brunswick Formation. Van Houten (1965, p. 834) reports that some beds enclose large complete molds of glauberite, as well as rosettes of elongate calcite casts. The coarser deposits are fledspathic and are commonly cemented by calcite (Van Houten, 1965, p. 834).

The thickness of the Brunswick Formation in the Hackensack River basin is unknown. Herpers and Barksdale (1951, p. 23) estimated the Brunswick to be about 6,000 to 7,000 feet thick in the Newark area just south of the Hackensack River basin.

ATTACHMENT 1-2

#### Diabase

Sills and dikes of diabase (commonly called traprock) intruded the strata of the Newark Group. They are relatively resistant to erosion and form the Palisades ridge, Laurel Hill, and Little Snake Hill. Minor intrusive bodies of diabase are found at North Arlington and Bogota. The diabase dikes at Laurel Hill, Little Snake Hill, and Bogota cut the Brunswick Formation at high angles. The diabase at North Arlington is a sill, and that which forms the Palisades is a semiconcordant sill. The latter sill was fed by dikes and the upper and lower contacts of the sill locally cut across the bedding of the Stockton Formation. The Palisades diabase is 1,200 feet thick north of Englewood and thins southward to Jersey City (Darton, in Merrill and others, 1902, p. 9).

Diabase is a black, hard, dense rock composed of about equal amounts of plagioclase fledspar and augite. The texture ranges from finely crystalline in small dikes or chilled border zones of large intrusions to coarsely crystalline in the center of large intrusions where the rock solidified slowly thus giving the crystals a longer time to grow. Diabase is extensively quarried for road metal, particularly the dike at Laurel Hill and along the west flank of the ridge formed by the Palisades sill.

#### Quaternary Deposits

#### Pleistocene Deposits

Unconsolidated deposits overlying the Newark Group consist of sand, gravel, silt, and clay, that were deposited largely during the last (Wisconsin) glaciation of the Pleistocene Epoch. These deposits are generally thickest in the valleys and are thin or absent on nill crests. The deposits can be broadly subdivided into till and stratified drift. Till is an unsorted mixture of sand, gravel, silt, and clay deposited directly from the ice. It covers almost all the bedrock in the Hackensack River basin. The thickness of the till is variable; it averages 25 feet and is known to exceed 165 feet locally in the meadows area. Stratified drift consists of sand, gravel, silt, and clay which has been transported by water; it is poorly to well sorted. The stratified drift was deposited in contact with the ice or as outwash in flood plains, deltas, and as fine sediment in lakes during and after the retreat of the ice.

Stratified drift deposits of varved silt and clay, as much as 300 feet thick in the meadows, occur in two troughs (fig. 4) which roughly parallel the sides of the basin and probably connect a few miles south of the New York State line. Perlmutter (1959, p. 25) has reported similar deposits of laminated clay continuous with those of New Jersey in southern Rockland County, New York. Because of their varved character and lack of marine fossils, the silt and clay are presumed

to nave been deposited in fresh-water lakes (Lake Hackensack) which formed as the ice retreated. The varved silt and clay overlie till or bedrock and underlie Holocene deposits. In the eastern trough, from Jersey City northward to Ridgefield Park, however, the varved silt and clay overlies coarse sand and gravel also.

Coarse sand and gravel in the eastern trough underlie both till and lakebeds and are as much as 50 feet thick. They are fluvial deposits formed prior to the last glacial advance across the area. They were probably more extensive in the eastern trough and were deposited also in the western trough, but most of the materials have been removed by glacial scour. Thin deposits of stratified coarse sand and gravel underlie terraces along the sides of the valleys north of the Hackensack Meadows. Also several small hills of coarse sand and gravel, called kames, were formed in contact with the retreating ice north of the meadows.

In seven small areas (shown on figure 5), a part of the interval normally containing lakebeds is composed of beds of sand and gravel deposited as small deltas. The streams that built these deltas flowed eastward either in contact with the ice as the glaciers retreated or in Lake Hackensack. The valleys formed by these streams probably represent successively more southerly routes of the Passaic and Saddle River prior to the establishment of their present course.

#### Holocene Deposits

In the upper part of the basin, Holocene deposits are thin and of small areal extent. In the lower part of the basin, deposits of sand, gravel, silt, clay, peat, and root mat (decayed vegetation) of Holocene age directly underlie the Hackensack Meadows. Here fine-grained sand and silt overlie till and varved silt and clay of Pleistocene age. The sand deposits are lenticular and thicken to 50 feet downstream. Root mat overlies the sand and silt in most of the meadowland and is about 10 feet thick, but locally is 50 feet thick. Artificial fill consisting largely of trash and rubbish overlies the natural deposits in parts of the Hackensack Meadows.

#### HYDROLOGY

#### Surface Water

The Hackensack River basin can be divided into two areas which differ markedly in their hydrologic characteristics. The division arbitrarily set at the north edge of New Milford, New Jersey, separates the basin into an upper (northern) 113-square mile area and a lower (southern) 84-square mile area.

In the interval between 1927 and 1963 the average yearly total dissolved solids content of the Hackensack River in the upper area increased from 104 mg/l to 184 mg/l and the hardness calculated as calcium carbonate increased from 37 mg/l to 77 mg/l (analyses by the Hackensack Water Company). Some of the increased dissolved solids content resulted from cycling water through municipal and domestic sewage systems.

The Hackensack Meadows in the lower area of the basin are utilized for the disposal of 57 mgd of treated municipal sewage effluent and industrial waste, rich in nitrates and phosphates. During summer months, particularly when precipitation is deficient, brackish water from Newark Bay flows up the Hackensack River. The chloride concentration in Newark Bay is approximately 10,000 mg/l. In the late summer of 1961 concentrations as high as 4,000 mg/l were found in the Hackensack River as far north as Hackensack and concentrations of several hundred milligrams per liter occurred near the northern part of the area below New Milford. This high concentration of chloride makes the water in the lower Hackensack unsuitable for municipal and industrial processes although it is usable for cooling purposes.

#### Ground Water in Consolidated Rock

#### Stockton and Lockatong Formations

The Stockton Formation underlies a small area on the west side of the Palisades in the Hackensack River basin. Because of its limited areal extent in the basin and because it has hydrologic properties similar to those of coarser parts of the Brunswick Formation, the hydrology of the Stockton Formation is not discussed separately in this section.

The Lockatong Formation is thin and is known from only one exposure in the basin. No wells are known to penetrate it within the basin. Based on studies made elsewhere in New Jersey, the Lockatong can be expected to yield considerably smaller quantities of water than the finer-grained parts of the Brunswick Formation.

#### Brunswick Formation

#### Occurrence and Movement of Ground Water

Ground water in the Brunswick Formation occurs in a network of interconnected openings formed along joints, fractures, and solution channels. The intervening unfractured rock has negligible capacity to store and transmit ground water. The openings which contain ground water decrease in size and number with increasing depth below land surface. As some beds within the formation contain more openings than others, the ground-water system consists of a series of alternating tabular aquifers and aquicludes several tens of feet thick and dipping

As the upper area of the basin has become more urbanized and water demands have increased, progressively smaller quantities of fresh water have been permitted to enter the meadows from upstream sources of the Hackensack River. During the drought from 1960 to 1965 practically no fresh water flowed into the meadows. Furthermore, the lower area is used for disposal of 57 mgd of sewage and industrial wastes, an amount equivalent to about one third the average precipitation that falls on the area. The preceding combination of factors makes surface water of poor quality available for induced recharge to the unconsolidated deposits in the meadows. This water is suitable for cooling if precautions are taken to prevent corrosion by water that may have a chloride content of several thousand milligrams per liter.

#### SUMMARY AND CONCLUSIONS

Bedrock in the Hackensack River basin is composed of sedimentary and igneous rocks of the Newark Group of Triassic age. The Brunswick Formation of the Newark Group is composed of mudstone, siltstone, and sandstone and is the most important bedrock aquifer in the basin. Water occurs in this formation in a network of interconnected openings Water occurs in this formation in a network of interconnected openings formed along joints, fractures, and solution openings. Because of preferential alinement of these openings the formation is anisotropic: greatest permeability and the major component of water movement in response to pumping is parallel to the strike of the beds. Consequently, well fields designed with wells alined transverse to the strike would have minimum interference between wells.

The zone in the Brunswick Formation that contains fresh-water-bearing openings is generally less than 200 feet thick in the main valleys of the Hackensack River and Pascack Brook. In upland areas the zone is greater than 300 feet thick and may be as much as 400 to 500 feet thick.

The median reported yield of industrial and public supply wells tapping the Brunswick Formation in Bergen County, which includes most of the Hackensack River basin is 100 gpm. The median specific capacity of wells tapping the Brunswick is 1.5 gpm per ft drawdown. The most productive wells (300 to 600 gpm) are located in narrow belts on the east and west flanks of the Hackensack Meadows where the Brunswick Formation is hydraulically connected to coarse-grained, highly permeable, unconsolidated deposits.

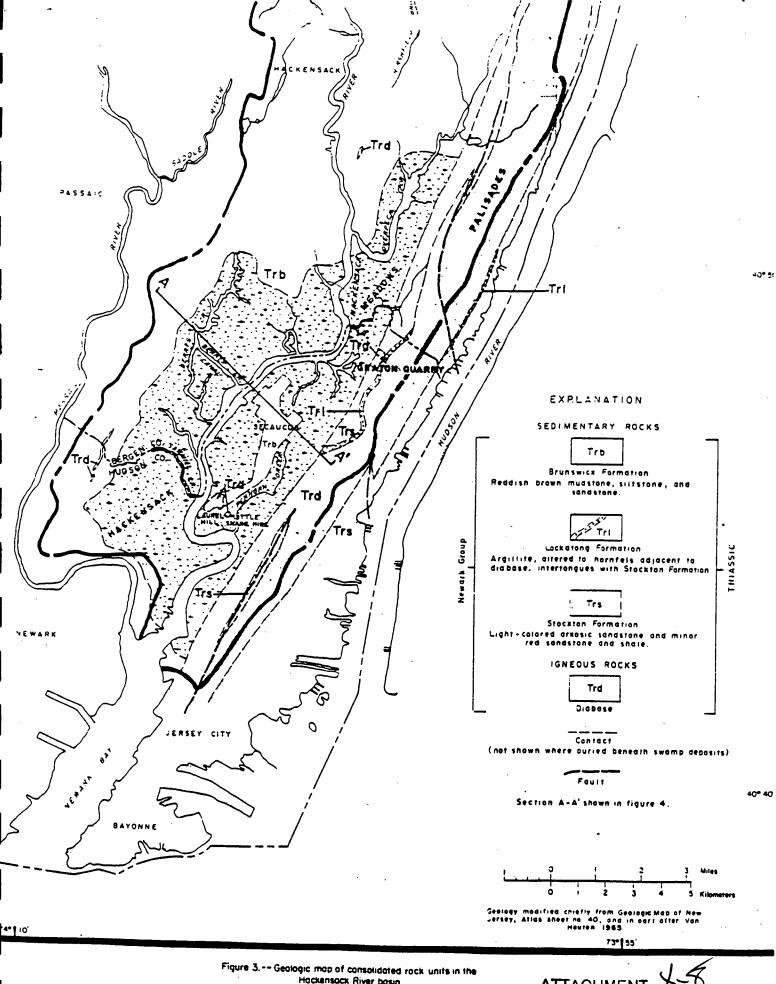
The Stockton and Lockatong Formations of the Newark Group have very limited areal extent and are not important aquifers in the basin. Diabase, an igneous rock, yields small quantities of water to wells; generally less than 35 gpm to industrial wells.

ATTACHMENT 16

Overlying the Newark Group throughout the basin are unconsolidated deposits consisting of alluvium of Holocene age and till, varved silt and clay, and sand and gravel of Pleistocene age. The sand and gravel have value as a source of ground water, yielding large supplies (greater than 300 gpm) of ground water locally.

Ground water from the Brunswick Formation in the upper area of the basin is relatively low in mineral content and of moderate hardness. Water from the Brunswick in the lower area is hard to very hard and highly mineralized. Here the water quality in both the Brunswick and unconsolidated deposits is influenced by water quality of the Hackensack River and Newark Bay. Heavy pumpage has induced recharge of poor quality water, high in chloride, from these sources. Both surface and ground-water quality in the lower area is influenced by the disposal of large quantities of sewage and industrial wastes in the Hackensack Meadows.

Utilization of surface water in the Hackensack River basin above Oradell Reservoir is approaching its maximum limit. Consequently, development of additional water supplies from the ground water reservoir is limited, because it would decrease surface-water supplies. Ground-water development is limited also by the small amount of ground water stored in the basin and by the intrusion of surface water of poor quality into the ground-water reservoir in the lower area of the basin.



ATTACHMENT Y

PUBLIC SERVICE ELECTRIC AND GAS COMPANY

HACKENSACK GAS PLANT

PRELIMINARY SITE ASSESSMENT

Gas Plant Task Force

September 2, 1986

ATTACHMENT 4

EXHIBIT 1.1
U.S.G.S. QUADRANGLE MAP



The surface water within 3 miles downstream is used for recreational and commercial purposes.

There are no public surface water-supply intakes within 3 miles downstream.

- 2.4 Geologic and Hydrologic Factors
- 2.4.1 General Geology and Topography

The Hackensack Gas Plant is located in the Piedmont Physiographic Province of New Jersey. This province consists of lowlands and gently rolling hills which are underlain by the shales, sandstones and argillites of the Brunswick, Stockton and Lockatong Formations. The Watchung lava flows and Palisades intrusion create areas of higher elevation (Exhibit 2.4.1-1). Much of the area in the Piedmont Province is overlain with interglacial gravels, glacial till and stratified drift.

A broad lowland, called the Hackensack Valley, exists between the First Watchung Mountain and the ridge of the Palisades Sill. Most of the lowland is below 50 feet in elevation and some areas are tidally influenced. Much of this area was under glacial Lake Hackensack during the last glaciation period of the Pleistocene Ice Age (Exhibit 2.4.1-2). Glacial lacustrine clays were deposited beneath the lake. In recent times, these clays have caused extensive areas to become poorly drained marsh and meadowlands. Sand and gravel were also deposited during glaciation. Much of the City of Hackensack lies on a gravel plain which has the shape of a delta. Pre-glacial river channels have been filled with over 200 feet of sand and gravel deposits. Low sandstone ridges, 100-200 feet high, which parallel the northeast-southwest trend of the Watchungs and Palisades create upland areas in the Hackensack Valley.

The topography at the Hackensack Gas Plant is level, less than 10 feet above sea level. A bench mark in the vicinity of the gas plant property is at 8 feet. To the south of the plant are the Hackensack Meadowlands at sea level. To the east of the plant, on the opposite side of the Hackensack River, a sandstone ridge rises to over 100 feet in elevation. (Exhibit 2.4.1-3).

The following formations occur at the Hackensack Gas Plant. They are, in order of youngest to oldest:

Quaternary System (Recent Series) - Alluvium

(Pleistocene Series) - Wisconsin glacial deposits

Triassic System - Brunswick Formation

The principal aquifers in the area are the stratified sands and gravels of the Wisconsin drift and the Brunswick Formation.

2.4.2 Hydrology

#### 2.4.2.1 Brunswick Formation

The Brunswick Formation is considered to be the bedrock formation in the area of the Hackensack Gas Plant. It is estimated to be about 6,000 - 8,000 feet thick (Nichols, 1968).

At this locality, the Brunswick Formation consists predominately of sandstone and shale. The sandstone beds are relatively thick and well cemented. Color ranges from light brown to reddish brown. The shale beds range from brown to reddish-brown to gray in color. They are soft and weather easily.

The strata of the Brunswick Formation have been faulted and tilted to the northeast. The rocks strike N30°E and dip approximately 10°NW (Nichols, 1968).

The Brunswick Formation is considered to be an aquifer in the vicinity of the Hackensack Gas Plant. The formation is in itself impermeable. The primary pore spaces in the shale are small and water moves very slowly through it. Most of the water in the formation is stored and transmitted in the secondary fracture and joint openings which traverse the bedding at high angles. Some water is also transmitted along the bedding planes. The fracture openings can be widened when groundwater dissolves the rock along the fractures. These cracks and fractures intersect one another and the ground water can theoretically move in any direction. The direction of favorable flow will be determined by the relative size of the cracks. With depth, the weight of the overlying rock causes the fracture openings to decrease in size. Therefore, water yield in the Brunswick Formation decreases with depth.

### 2.4.2.2 Wisconsin Glacial Deposits

The deposits of the Wisconsin ice sheet are composed of unconsolidated sediments which were deposited by three mechanisms: glacial-deposited directly by the glacier; glaciolacustrine-deposited by glacial meltwater in lakes, and glaciofluvial-deposited by glacial meltwater in streams.

The material can be deposited as till, an unstratified mixture composed of boulders, cobbles, gravel, sand and clay or, it can be deposited in stratified layers containing material similar in size. This is usually referred to as stratified drift.

During the last ice advance of the Pleistocene ice age, the area of the Hackensack Meadowlands was submerged beneath glacial Lake Hackensack. This glaciolacustrine environment caused thick layers of silt and clay to accumulate. In the city of Hackensack, these clays are 85 feet thick. North of Hackensack Gas Plant, on the east side of the river near Bogota, 215 feet of clay has been reported (Wolfe, 1977).

The Hackensack Meadowlands are crossed by a number of pre-glacial river valleys which are cut into the bedrock. These valleys or channels contain both deposits of stratified sand and gravel and unstratified material. Bedrock to the west of Teterboro and north of Hackensack is over 100 feet deep.

At the Hackensack Gas Plant, bedrock appears to be 20-60 feet below the surface. The bedrock slopes up towards the river. (Exhibit 2.4.2-1). This is overlain by glacial deposits of thick clay with possible sand lenses. Less than one mile to the west is a pre-glacial valley with over 100 feet of sediments. Less than one mile to the east, bedrock is at the surface.

The unconsolidated stratified glacial drift deposits provide varying amounts of water. Where deposits of sand and gravel are thick enough, the pore spaces between the constituent grains are large and water can flow freely. Where silt and clay are present though, the insterstitial openings are small and water cannot move through them.

The bedrock channels underlying the Hackensack Meadowlands are primarily filled with stratified drift which consists of clays and sandy clays that were deposited in a lacustrine environment. These fine grained sediments transmit water poorly. Also present are interbedded lenses sand and gravel. These coarser sediments are capable of bearing large quantities of water.

The aquifers in these Pleistocene deposits are recharged bu water percolating down from the surface. In addition, the sand and gravel deltaic deposits seem to be hydrologically connected to uplands outside of the tidal marsh area (Widmer, 1968). Besides acting as an aquifer, these Pleistocene deposits also have the important function of absorbing, storing and transmitting water to the Brunswick Formation below. There seems to be some correlation between the thickness and permeability of the Pleistocene deposits and the yield of wells in the Brunswick Formation.

#### 2.4.3 Selected Well Logs

Exhibit 2.4.3 shows subsurface conditions for selected wells in the vicinity of the Hackensack Gas Plant Site.

#### 2.4.4 Conclusion

The area at the Hackensack Gas Plant is underlain by 20-60 feet of glacial deposits. Most of this material contains clay and silt which were laid down as lacustrine deposits in glacial Lake Hackensack. These deposits limit the ability of the formation to store and transport water. The Brunswick Formation is considered the bedrock material at Hackensack Gas Plant. This formation can serve as a relatively good aquifier. The Hackensack Water Company has public water supply wells drawing from both the Brunswick Formation and Pleistocene sands and gravels in this area.

ATTACHMENT Z

FORM 87

# 26-03-646 E7 DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

Permit No 263655
Application No.

ATTACHMENT

County Bergen

DIVISION OF WATER POLICY & SUPPLY

#### WELL RECORD

1.	OWNER Mr Arthur Abrams  ADDRESS 5 Fairway Ave  Owner's Well No. One SURFACE ELEVATION 75 (Above seen see level)
	Owner's Well No. One SURFACE ELEVATION 75
2.	Incation Maywood Bergen Co N.J.
3.	DATE COMPLETED Dec 18 1965 DRILLER Rinbrand Well Drilling Co Inc
4.	DIAMETER: top 6 Inches Bottom 6 Inches TOTAL DEPTH 100 Feet
5.	CASING: Type Steel 6 lacks 21
6.	SCREEN: Type Size of Dispeter inches footh
	Range in Depth { Top Feet   Geologic Formation Feet   Toil place   Cologic Formation   Geologic Formation   Geo
	iair precei DiameterInches LengthFeet
7.	
٠.	Water rises toFeet above surface
8.	RECORD OF TEST: Date Dec 18 1965 Yield 120 Gallons per minute
	Static water level before pumping
	Pumping level 80feet below surface after 4hours pumping
	Ballor  Ballor  Ballor
	Now Pumped Bailor Now measured bbl
	Observed effect on nearby wellsnone
9.	PERMANENT PUMPING EQUIPMENT:
	Type Submersible Man Ton Deming
	Type Submersible Nfre. Name Deming  Capacity 20 G.P.M. Now Driven electric N.P. 3/4 R.P.M. 3500
-	Beeth of Pune is not 80
- ;	Beeth of Pump in well 80 Feet Beeth of Footpiece in well no Feet
	Bepth of Air Line in well no Feet Type of Neter on Pump no size_inches
O	USED FOR Domestic AMOUNT {  Average Gailons Daily  OHALLTY OF MATTER  OHALLTY O
	( Mexicus Gallons Daily
1.	QUALITY OF WATER Sample: Yes Ho
: -	Teste_no clear 56
2.	LOG Hardpan Red Rock
B.	Rinbrand Well Drilling Co. The
-	SOURCE OF DATA
٤.	AATA ASTAURS Adam P Rinbrand
۹.	DATA OSTAINED SY Adam P Rinbrand Date Jan 10 1966

FORM 87

26-3-635 []

## DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT DIVISION OF WATER POLICY & SUPPLY

Permit No.9	26	-4404
Application	H a	
County		

#### WELL RECORD

ı.	OWNER ADDRESS 146 Midland Ave., E. Paterson, II.
	Owner's Well No. One SURFACE ELEVATION GO (Above mean eea level)
2.	LOCATION 146 Nidland Ave., East Paterson, N.J.
3.	DATE COMPLETED Aug. 6,1971 DRILLER Soren Nelson Jr.
4.	DIAMETER: top 6 Inches Bottom 6 Inches TOTAL DEPTH 95 Feet
ś.	CASING: 7 19 # drive 6 22
6.	SCREEN: Type Size ofInches LengthFeet
	SCREEN: Type Size of Diameter Inches Length Feet Range in Depth {
	Tail piece: DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY Gailons per Hinute at Feet above surface
	Water rises toFeet above surface
8.	RECORD OF TEST: Date Aug. 6. 1971 Yield 35 Gallons per minute
	Static water level before pumping 28 Feet below surface
	Pumping level 46 feet below surface after 3 hours pumping
	Drawdown 40 Feet Specific Capacity 35 Gals. per min. per ft. of drawdown
	Now Pumped submersible test pump How measured 5 gal. container & water
	Observed effect on nearby wellsNo
9.	PERMANENT PUMPING EQUIPMENT:
	Type Submersible Hfrs. Name Goulds
•	Capacity 30 G.P.M. How Driven elect. H.P. 1 1 R.P.M. 3450
	Depth of Pump in well 45 Feet Depth of Footpiece in well Feet
	Depth of Air Line in wellFeet Type of Neter on Pump Sizeinches
10.	USED FOR <u>irrigation of lawn</u> AMOUNT   Average Gallons Daily  Maximum Gallons Daily
	Oliai ITV of water Potable
	Table Bank
12.	L06
,	(Give details on back of sheet or on separate sheet. If electric log was made, cleane
13.	SOURCE OF DATA Well site
14.	DATA OBTAINED BY Pine Brook Well Drillers Date Aug 6.1971
	(NOTE: Bee other side of this sheet for additional information such as log of materials ponetrated, analysis of the vator, sketch map, sketch of special casing arrangements etc.)

26-03-621 6 Permit Nov. 26-3952 DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT Application No. _____ DIVISION OF WATER POLICY & SUPPLY County_ WELL RECORD OWNER HAWARD MACK ADDRESS 435 SUMITAVE. SURFACE ELEVATION (4boys men see level HACKENSACK, N.T. DATE COMPLETED JULY 13 DRILLER OWINGS DIAMETER: top 6 Inches Bottom 6 Inches TOTAL DEPTH 150 CASING: Type B. STERL Diameter 6 Inches SCREEN: Type NONE Size of Opening Tail piece: Diameter_____inches WELL FLOWS NATURALLY NO Gallons per Ninute at ______ Feet above surface Feet above surface RECORD OF TEST: Date JULY 12 Yield 35 Gallons per mins to Static water level before pumping 22 Pumping level 33 3 feet below surface after 3 Specific Capacity_____Gals. per min. per ft. of drawdown How Pumped PERMANENT PUMP How measured MUD PUMP Observed effect on nearby wells NONE PERMANENT PUMPING EQUIPMENT: Type 3 H.P. 508. Hfrs. Hans JACUZZI Now Driven_____ N.P. 3 8.P.N. 3400 Bepth of Pump in well 123 Feet Depth of Footpiece in well _____ Depth of Air Line in well____Feet Type of Neter on Pump____ AMOUNT {Average 400 Gallons Daily USED FOR DOMESTIC QUALITY OF WATER 6000 Taste GOOD Hor NONE Color CLEAR LOB_ON BACK Give details on book of about or on separate about. If electric log was made, please

ATTACHMENT

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ATTACHMENT _Z_4

FORM 87

# 26-04-4/2 DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT DIVISION OF WATER POLICY & SUPPLY

Application No. ______ County____ Bergen

WELL RECORD

1.	OWNER Fairleigh Dickinson, Westerveltanderss River Road
	Owner's Well No SURFACE ELEVATION Feet
	• • • • • • • • • • • • • • • • • • • •
2.	
3.	DATE COMPLETEDADril 1.1966 DRILLER Rinbrand Well Drilling Co. Inc.
4.	DIAMETER: top 8 Inches Bottom 8 Inches TOTAL DEPTH 363 Feet
5.	CASING: Type Steel Diameter 8inches Length 116 _Feet
6.	SCREEN: Type Size of Opening Diameterinches LengthFeet
	Range in Depth { TopFeet   Second Formation Feet   BottomFeet   Feet   Becologic Formation Feet   Feet
	Tail piece: DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY Gallons per Ninute at Feet above surface
	Water rises toFeet above surface
8.	RECORD OF TEST: Date April 1,1966 Yield 45 Gallons per minute
	Static water level before pumping 21 Feet below surface
	Pumping level 200 feet below surface after 8 hours pumping
	Drawdown 198 Feet Specific Capacity Gals. per min. per ft. of drawdown
	Now Pumped Submersible How measured Meter
	Observed effect on nearby wellsNone
9.	PERMANENT PUMPING EQUIPMENT:
	Type Submersible Hfrs. Hame Sum o
	Capacity 615 6.P.M. How Driven Electric H.P. 10 R.P.M. 3500
	Depth of Pump in well 200 Feet Depth of Footpiece in well Feet
	Depth of Air Line in wellFeet Type of Neter on Pump SizeInches
10.	USED FOR Irrigation AMOUNT AMOUNT Average Gallons Daily
11.	
, <u></u>	70.40
12.	Los 110 Clay 253 Shale- Some Sindstone Are samples available? no
	rerain copy)
13.	Source of DATA Rinbrand Well Drilling o. Inc.
14.	DATA OBTAINED BY Adam P. Rinbrand Date April 18,1966
	CHOPE: Hee other also of the control of

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P COM MA	•,

# DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT DIVISION OF WATER POLICY & SUPPLY

Permit No.	16-2081	•
Application	No	
County	<del> </del>	

WELL RECORD

26-03-652

1.	OWNER Spinserin Yarn Co ADDRESS _Huyler Street, So. Hackensack
	Owner's Well No SURFACE ELEVATION Feet
2.	LOCATION <u>Near Intersection of Green &amp; Wesley Streets</u> , South Hackensack, N.
3.	DATE COMPLETED September, 1959 DRILLER Artesian Well & Equipment Co., In
, ,	
5.	DIAMETER: top 6" Inches Bottom Inches TOTAL DEPTH 228 Feet
-	CASING: Type Partially removed. Diameter inches Length Feet
<b>;.</b>	SCREEN: Type Size of Opening Diameter Inches LengthFeet
	Range in Depth { Top Feet   Geologic Formation
	Tail piece: Diameterinches LengthFeet
•	WELL FLOWS NATURALLY Gallons per Minute at Feet above surface
	Water rises toFeet above surface
•	RECORD OF TEST: Date 9/59 Yield 17 1/2 Gallons per minute
	Static water level before pumping 25° 6" Feet below surface
	Pumping level 97' feet below surface after 6 hou's pumping
,	Drawdown 71' 6" Feet Specific Capacity Gals. per min. per ft. of drawdown
	How Pumped Deep Well Turbine How measured 55 Gal. Drum
	Observed effect on nearby wells
	PERMANENT PUMPING EQUIPMENT:
	Type Hfrs. Hene
	Capacity H.P R.P.H.
	Depth of Pump in wellFeet Depth of Footplece in wellFeet
	Depth of Air Line in wellFeet Type of Meter on Pump Sizeinches
•	USED FOR Gallons Daily  AMOUNT   Amount   Average Gallons Daily
ì.	QUALITY OF WATER
١.	
	LOS See reverse side.  (Oive details on back of sheet or on separate sheet. If electric log was made, please
•	SOURCE OF DATA ARTESIAN WELL & EQUIPMENT CO., INC.
•	DATA OBTAINED BY ARTESIAN WELL & EQUIPMENT CO., Date December 26, 1962
	(NOTE: Wee other side of this sheet for additional information such as log of materials ponetrate analysis of the vator, shetch map, shetch of special casing arrangements etc.)
	7

#### LOG OF FORMATION

Clay, brown. Clay, red and lumpy. Clay and sand, brown. Clay, brown. 10 - 13' Clay, sandy, brown. 13 - 251 25 - 541 Clay, gray. Clay, reddish gray. 54 - 581 58 - 701 Clay, sandy, gray. Clay, gray and red. 70 - 761 Clay, red. 76 - 1001 Clay, sandy, red. 100 - 117' Clay, sandy, brown. 117 - 1331 Clay, sandy and small gravel. 133 - 134' Sand, clay, small and large gravel. 134 - 135' Gravel. 135 - 136' Gravel and coarse sand. 136 - 1381 Gravel and sand. 138 - 141' Coarse sand and gravel. 141 - 1481 Sand, fine and clay. 148 - 1501 Sand, fine and gravel, small and large. Small and large gravel and coarse sand with some clay lumps. "150 **-** 1561 159 - 161 ' Coarse gravel and soupy sand. 161 - 164' Reddish brown sand and clay, mixed. 164 - 1661 Sand, soupy, clay lumps and gravel. 166 - 1691 Clay lumps, small gravel and sand. 169 - 1721 172 - 1831 Hardpan. Sandstone. 183 - 1941

* 156 - 159 * Sand, coarse and small gravel.

Hosh. Water Co. Info from History

8" test hole in your of Hackinsoch

Critist up to too gpink 25' ) Johnson 125 (?) shot

screen express of 140-165 ys. State: 17'

well of south show & Orabell Res.

i about 10:160'

1 21 gr.

NYR-135A	STATE OF NEW JERSEY  DEPARTMENT OF ENVIRONMENTAL PROTECTION  DEPARTMENT OF ENVIRONMENTAL PROTECTION  APPLICATION NO.
<b>. Be</b>	DIVISION OF WATER RESOURCES COUNTY Berger
	WELL RECORD (1) coord. 26-03-655
1. OWNER BOArd of E	ducation ADDRESS FIRST St.
Owner's Well No. Und.	(Above meen see level)
2. LOCATION Hackensag	Tames Ames
3 DATE COMPLETED /0- /-	DRILLER
	Bottom inches 6 4/a 5-11
5. CASING: Type Stee!	Diameter more:
6. SCREEN: Type	Size of Opening Diameter Inches
Range in Depth	Geologic Formation Trias Sh. a SS.
. Tail Piece: Diameter	E
Tail Piece: Diameter	Gallons per minute at Feet above surface
	Feet above surface
Water rises to	14.
8. RECORD OF TEST: Date	
Static water level before pumpin	hours pumping
Pumping level	feet below surface after
Pumping level 80  Drawdown 60	Feet Specific Capacity Gats, per min. per ft. of drawdown
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    C
Pumping level 80 Drawdown 60	Feet Specific Capacity Gats, per min. per ft. of drawdown
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    Gals   Gals
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    Gals   Gals
Pumping level	Feet Specific Capacity Gals, per min., per ft. of drawdown    C
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    C
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    C
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    C
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    C
Pumping level	Feet Specific Capacity Gals, per min. per ft. of drawdown    C
Pumping level	Specific Capacity
Pumping level	Feet   Specific Capacity   Gals, per min. per ft. of drawdown
Pumping level	Feet Specific Capacity Gals, per min. per fz. of drawdown    Capacity Gals, per min. per fz. of drawdown   Capacity Gals, per min. per fz. of drawdown   Capacity Gals, per min. per fz. of drawdown   Capacity Gals, per min. per fz. of drawdown   Capacity Gals, per min. per fz. of drawdown   Capacity Gallons
Pumping level	Feet Specific Capacity Gals, per min, per ft, of drawdown    Capacity Gals, per min, per ft, of drawdown   Capacity How measured

e other side of this sheet for additional antimitation such as log of materials personal and other side of the water, sketch map, sketch of special casing arrangements, etc.)

ATTACHMENT

#### FORMATION LOG

0 - 3. Black muck sandy.

3 - 8' Sandy clay.

8 - 21' Gray clay, some sand.

21 - 64' Gray clay, some sand.

64 - 87' Grayish Brown Clay.

87 - 101' Brownish red clay.

101 - 117' Fine brown sand with day.

117 - 132' Fine reddish brown sand, soupy.

132 - 133' Red clay.

133 - 196' Fine reddish sandy clay.

196 - 202' Medium sand, brown, active.

202 - 203' Sand and gravel, Pea size.

203 - 225' Sandy clay.

225 - 228' Brown shale.

A test screen was set with the bottom of the screen at 203'.

By reason of the poor production and poor quality of water,

the test screen was removed and 6" pipe unscrewed approximately

40' below the surface and a bridge placed in thecasing at

approximately 60' below the surface and the entire hole filled

with cement.

DREAM CONE, & SCON, DEV.

DEC 27 62 A

BECEINED

ATTACHMENT Z-8

FORM 87.

# 26-03-652 DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT DIVISION OF WATER POLICY & SUPPLY

Permit No. 26	-1642
Application No.	
ounty Bergen	

#### WELL RECORD

	OWNER Frank Toriello and Sons ADDRESS Central Ave
,	Owner's Well No. 3 SURFACE ELEVATION (Above mean sea level)
2.	LOCATION Rochelle Park N.J.
3.	DATE COMPLETED April 8 1957 DRILLER L Bommelyn
4.	DIAMETER: top 6 Inches Botton 6 Inches TOTAL DEPTH 100 Feet
5.	CASING: Type Steel Diameter 6 Inches Length 21 Feet
	SCREEN: TypeOpeningDiameterInches LengthFeet
	Range         Top Feet         Geologic Formation           Bottom Feet         Feet
	Tail piece. DiameterInches LengthFeet
7.	WELL FLOWS NATURALLY Gallons per Minute at Feet above surface
	Water rises toFeet above surface
٤.	RECORD OF TEST: Date May 8 1957 Yield 20 Gallons per minute
	Static water level before pumping 3 Feet below surface
	Pumping level 15 feet below surface after 3 hours pumping
	Drawdown 12 Feet Specific Capacity Gals. per min. per ft. of drawdown
	How Pumped Bailor How measured Bbl
	How Pumped Bailor How measured Bbl  Observed effect on nearby wells none
9.	
9.	Observed effect on nearby wells
9.	Observed effect on nearby wells
9.	Observed effect on nearby wells
9.	Observed effect on nearby wells
	Observed effect on nearby wells
	PERMANENT PUMPING EQUIPMENT:  Type Mfrs. Name  Capacity 6.P.M. How Driven H.PR.P.M  Depth of Pump in well Feet Depth of Footpiece in well Feet Depth of Meter on Pump
10.	Observed effect on nearby wells
	Observed effect on nearby wells
10.	Observed effect on nearby wells
10.	PERMANENT PUMPING EQUIPMENT:  Type
10. 11. 12.	PERMANENT PUMPING EQUIPMENT:  Type

DWR-138 M 6/89



#### New Jersey Department of Environmental Protection Division of Water Resources

#### MONITORING WELL RECORD

	•	We	ll Permit No	_26	<u> 23585</u>
		Atla	s Sheet Coord	dinates	26:_03:_692
DWNER IDENTIFICATION - Owner _		Maria.			
Address	174_178 (************************************	<del>XX()</del>			
City	HACKINSACK	¥•••••	State N	7	Zip Code
VELL LOCATION - If not the same a	s owner please give addre	ess. Ow	ner's Well No.	_ mw	<b>L</b>
countyddress	Municipality				
ddress	HACK	RASSACK CI	TY	_	87A Block No
YPE OF WELL (as per Well Permit C legulatory Program Requiring Well _ ONSULTING FIRM/FIELD SUPERV		24.6	Date v	veil complete	0226
	// (ii applicable)/	me.c c	ZAJYI (BUIN	er wi	Tele, # <i>805 1758</i>
ELL CONSTRUCTION		Depth to	Depth to	Diameter	
otal depth drilledft.		Top (ft.)	Bottom (ft.)	(inches)	Type and Material
ell finished to15ft.	· · · · · · · · · · · · · · · · · · ·	[From lar	nd surface)	(	
rehole diameter:	Inner Casing	۵	3	4	PVC
Top <u>g</u> in.	Outer Casing			<u> </u>	100
ottom 8 in.	(Not Protective Casing)				
	Screen (Note slot size)	3	15	4	PVC 010
ell was finished: above grade			13		YVL 010
Ilush mounted	Tail Piece	•			
nished above grade, casing	Gravel Pack	3	15	8	2 SANO
ght (stick up) above land	Angular Coal Coal			0	2 SANO
faceft.	Annular Seal/Grout	_ 0	3	૪	Cemalt
s steel protective casing installed? Yes No	Method of Grouting	Treme	Pipe.		
atic water level after drilling 4½	<b>f</b> t •	GEO	LOGIC LOG	(Copies	of other geologic logs and/or
ter level was measured using				geopny	sical logs should be attached.)
il was developed for 1 hou	real to me		2 Couract		
hod of development Southers.	gpm	2-	5 Fill (	BAICK GL	AS SHIC)
		—   5·	15 Med	KNE SA	ND /SILTY
s permanent pumping equipment ins	stalled? Yes No				1
np capacitygpm					Í
np type:	<del></del>				
ing Method HSA					
	of Rig B-53 mostle				
ne of Driller Keuns			Ju 5 '91		
	JYes ⊠No		ויינע א אוו		
el of Protection used on site (circle or	We) (None) D C B A				
License No. <u>J-1358</u>					1
e of Drilling CompanyAII	VANCED ENVIRONME	TAL BORTI	<b>VG</b>		<b>!</b>
tify that I have drilled the above- e rules and regulations.				it requirem	ents and all applicable
Driller's Signat	ure 🗡			Dat	na 5/4/21
COPIES: White &	Green · DEP (Canar).	Dtiller Pi	sk • Owner		Health Dept.
					TTACHMENT Z

26-03-691 26-12705-9

#### MW - 1

0'- 7' Brown Sandy silt, some Gravel
7'- 9' Green Clay
9'-11' Blue/Green Clay
11'-20' Gray Clay

ATTACHMENT AA

(SK)

Form DWR-143 7/81



# NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES ENFORCEMENT & REGULATORY SERVICES

### COMPLIANCE EVALUATION INSPECTION PUBLIC COMMUNITY WATER SUPPLY



DATE 443125 19.11
GENERAL INFORMATION
FACILITY Hackensack Water Company
FILE LOCATION HOWORTH / Bergen County / PW-ID # 023800]
MAILING ADDRESS 400 Lake Shore Drive Haworth NT 07641
ADMIN Donald Correll President REQUIRED T. LICENSES W. 4
DIGINECC
TELEPHONE # Admin.: Licensed Operators: T-4 W-4  FACILITY DESCRIPTION D. Hoven
SOURCES: descriptions, locations, capacities(mgd): See attached Sheet A
Est Tot Eff Cap:
TREATMENT: source, type, capacities(mgd): See attatched Sheet B
Est Tot Eff Cap:
FINISHED WATER STORAGE: descriptions, locations, capacities(mg): See attatched Sheet C.
Pump + Booster Stations: See attached Sheet D" Est Tot Cap:
Torsel City at Seconds 1 30"
EMERGENCY INTERCONNECTIONS: descriptions, available gallonage(mgd): Terscy City at Secarcos 1 30"
18 MGD: P.V.W.C. al woodridge 1, 20" of 10 MGD: Ridge wood 1, 6" of 1 MC
and Park Ridge 1,6" of 0.5 MGD
Est Tot Avail:
AUXILIARY POWER: location, type, capabilities: See attatched Sheet E

ATTACHMENT AF



# NJDEP - DIVISION OF WATER RESOURCES PUBLIC COMMUNITY WATER SUPPLY INSPECTION



		DELIVERY INFORMATION	C 1992 Annual C.	
	WATER June 199	Decemb	Annual Annual Annual Average	4 HGD
PLANT DELIVERED	WAICK	Min Olici	7.190	
(mgd,month	i year) Max	Toise	y City (NJDWSC) 30.0 -0.57 MG	DMG
	provider mod) P.V. W. C	. 14.5 MG , Jerse	y City Charles	
BULK PURCHASES (	provider in E. 7 1 . 1.	C III Book	- 0 67 MG	
DITT V CAT ES (custor	mer med) Frielaun -	2.13MG, Saddle Brook	- Uas I risk	
ROLK SALES (casto)		• •	% METERED 100	)70
NUMBER OF SERVI	CES 189 512			
MUNICIPALITIES SI	ERVED	I I shoot "F"		
(est. services i	neach) See attac	hed sheet "F"		
			TOTAL ESTIMATED	717 243
			POPULATION SERVICED	111,010
CURRENT/RECENT	ions None		·	
WATER RESTRICT				
NEW CONSTRUCT	oers) None			
(Project Numb		6" (min) to 8	<u>4" (max)</u>	
DISTRIBUTION MA	VIV. 21/1115	(min) to 120	esi (max)	
Distriction	Pressures	b21 (mm) to	needed	
	Hydrants/Flushing	Program		
		MONITORING & REPORTING	<u>G</u>	
			FREQUENCY PERFORMED	
1	PARAMETER(S)	FREQUENCY REQUIRED	PREQUENCE	
	. ————		360/month	
	Coliform	240/month	12/vear	
	Inorganics	Nyear	12145	
	Nitrate		48 9110 2514	
•	Trihalomethanes	1 4x questing	11/2005	,
	Organics	Y3 Yerra!	DC 1-	
	Turbidity	Parky	2/4/65	<u>]</u>
	A-280	2/484:	ialyear	·
•	Secolum Lin	1 /yas	1/4460	1
	Radionenis	1/4414	11111	
				V5050
	Hackensen V	with Company	CE:::.:ICATION #	
NAME OF LABOR	ATORY HULLINGULE	Water Company	ALT invited	•
LIM	A Lake Shore	brive Hawards	N. 3 C/691	
ADDRESS	C LANG OTHER			
		COMPLIANCE EVALUATI	<u>ON</u>	
	` <b>^</b>			
ACTIDAT DECIAI	ENCIES NIE DEFI	JENCY Sheet		<del></del>
SOURCE DELICIT	DITCIES	(		<u></u>
	<del></del>			
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	، ا. د	Great		
TREATMENT DE	FICIENCIES See de	TICICOCK SIRES		VV-J
		•	ATTACHMENT	1117
				,

### SHEET "A"

GREEI "A"	•
Sources:	
I. Surface	
A. Raw water impoundment on Hackensack River	
1. Lake DeForest (NY)	5 60 56
2. Lake Tappan	5.60 BG
3. Oradell Reservoir	4.00
4. Woodcliff	3.20
	0.90
All the above raw water sources go to the Oradell	Reservoir
B. Streams - Raw water diversions	
1. Saddle River P.S. (Paramus)	20 00 MCD
2. Long Swamp Brook P.S. (N. Milford)	20.00 MGD
3. Sparkill Creek P.S (Northvale)	2.50
4. Pompton Lakes P.S.	2.50
	75.00
C. Wells - Raw water diversions	(100)
1. Haworth - Lake Shore Drive	0.28 MGD
2. Hillsdale - Church Road	0.24 MGD
<ol> <li>Lafayette #6 - Harrington Park</li> </ol>	0.36
4. Lalayette #7 - Harrington park	0.22
5. Paramus #1 - Paramus Road	0.32
0. Paramus #2 - Daramus Dood	0.22
/. Westwood - Sand Rd. & Westwood Avo	0.80
8. Woodcliff Lake - Ackerman Ave	0.24
D. Wells - Raw water for air conditioning only	2.32
** natified Park #1	0.22
2. Harrington Park #2	0.22
TT Channel	
II. Ground	
A. Wells treated by hypochlorination	
I. DOUGLE #2 - MINN AVA E FIM	0.18 MGD
2. Bogota #3 - W. Grove & Division Street	0.16
3. Doyota #4 = Division St under winder	
*• Viu idpodu #10 - Old Tannan Dd c piccadala	Rd. 0.22
	0.24
V. ROCHELLE Park - ROOSEVELT AVE	0.32
7. Hackensack #2 - Hackensack Ave.	2.25
8. Upper Saddle River #1 - Lake St.	2.00
9. Upper Saddle River #2 - Lake St.	1.15
III. Bulk Purchase	6.74
1. Jersey City (NIDWOO) (*	6,11
1. Jersey City (NJDWSC) (Secaucus)	2.10 MGD
2. P.V.W.C. (Woodridge/Lodi) 3. Ridgewood Water	0.25
4. Park Ridge	0.08
	0.07
	م را ک
	11160

111.92

# SHEET "B"

# Treatment

- New Milford Plant (No activity at this facility)
- 2. Haworth Plant
  a. Pretreatment, comprising ozonation, addition of alum and coagulant aid (cationic polymer), floatation, detention basin, dual media filter, chlorination, ammonia, and caustic soda.
- Secaucus Pumping Station (Treatment no longer conducted at this facility)
- Wood-Ridge Pumping Station (Wood-Ridge/Lodi) (Treatment no longer conducted at this facility)
- 5. Wells treated by hypochlorination (9) 6.74 MGD
- 6. Rechlorination Weehawkin Effluent Res. #2

# SHEET "C"

Finished Water Storage:  1. Timberline (Alpine)  2. Carlstadt  3. Carlstadt  4. Englewood Cliffs  5. Hillside Ave. (Alpine)  6. N.E. Reservoir (Alpine)  7. Montvale  8. Reservoir #2 (weehawkin)  9. Ridgefield #1  10.Ridgefield #2  11 River Vale  12 Western (Woodcliff Lake)  13 Fairview	Ground Tank Ground Tank Earth Embankment Ground Tank Ground Tank Ground Tank	0.25 MG 3.20 0.30 1.00 5.00 5.00 1.50 69.20 5.0 5.0 5.0
Booster Stations	EET "D"	
<ol> <li>Alpine</li> <li>Carlstadt</li> <li>Fairview</li> <li>Hillside Ave.</li> <li>New Durham</li> <li>Ridgefield</li> <li>River Vale Emergency</li> <li>River Vale</li> <li>Upper Saddle River</li> <li>Western (Woodcliff Lake)</li> </ol>		0.79 MGD 2.50 10.0 23.0 52.50 25.0 2.20 2.10 4.90 3.20
Pumping Stations	•	
<ol> <li>Wood-Ridge (Lodi)</li> <li>Pompton Lakes</li> <li>Secaucus</li> </ol>	.1	12.0 MGD 70.0 10.0

### Attached Sheet "E"

# Auxiliary Power:

- 1. Haworth Plant PSE&G dual electrical sources (automatic); Diesel generator for lighting & computers, gas turbine (8 megawatt capacity) capable of sustaining plant at a level of 60 MGD.
- Hillside Booster Station Diesel generator direct drive (6 MGD). Battery backup for lights.
- New Durham Booster Station Diesel generator 50% of pumping capacity (25 MGD).
- 4. Ridgefield Booster Station Diesel generator 100% of pumping capacity (25 MGD).
- 5. River Vale Booster Station Diesel generator 100% of pumping capacity.
- 6. Upper Saddle River Booster Station Diesel generator 100% of pumping capacity (5 MGD).
  - 7. Fairview Booster Station Diesel generator 100% of pumping capacity.

### SHEET "F"

# Municipalities:

	1.	Alpine	Little Falls
	2.	Bergenfield Bogota	Lodi
	3.	Bogota	Maywood
	4.	Carlstadt	Montvale
	5.	Cliffside Park	Monnachie
	6.	Closter	New Milford
	7.	Cresskill	Northvale
		Demarest	Norwood
	9.	Dumont	Old Tappan
	10.	East Rutherford	Oradell
	11.	Edgewater	Palisades Park
	12.	Emerson	Paramus
	13.	Englewood	Ridgefield
	14.	Englewood Cliffs	Ridgefield Park
	15.	Fairlawn	River Edge
	16.	Fairview	River Vale
		Fort Lee	Rochelle Park
		Franklin Lakes	Rockleigh
	19.	Hackensack	Rutherford
	20.	Harrington Park	Saddle Brook
	21.	Hasbrouck Heights	South Hackensack
		Haworth	Teaneck
		Hillsdale	Tenafly
•		Leonia	Teterboro
	25.	West New York	Upper Saddle River
	26.	Washington TWP	Wallington
		Westwood	Woodcliff Lakes
	28.	Woodridge	Guttenberg
		North Bergen	Secaucus
	30.	Union City	Weehawken

Form DWR-143 7/81



# NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES ENFORCEMENT & REGULATORY SERVICES

# COMPLIANCE EVALUATION INSPECTION PUBLIC COMMUNITY WATER SUPPLY



DATE August 4, 1992

GENERAL INFORMATION
FACILITY Wallington Water Department
FILE LOCATION Wallington/Bergen County PW-ID # 026500
MAILING ADDRESS Municipal Building, Union Blvd. Wallington N.J. 07055
ADMIN. Mr. Robert Siery LICENSES W-2  Wr. William Hen. # (201) 935-1341
BUSINESS TELEPHONE # Admin.: (201) 777-1726 Licensed Operators: T-1 W-2
FACILITY DESCRIPTION  Page 15 Valley Water Commission
SOURCES: descriptions, locations, capacities (mgd): Bulk purchase - Passaic Valley Water Commission
PV WC connections (1) 8" Line 8th street Bridge (B) 8" Line Main Ave (Near Face)
Daicies)
Est Tot Eff Cap:
TREATMENT: source, type, (apacities (mgd): performed by PV W. C. water arrives already trucke
For emergency they have five hypochlorintors
Est Tot Eff Cap:
FINISHED WATER STORAGE: descriptions, locations, capacities(mg): Standpipe - Reservoir Avenue
Est Tot Cap: 1.0 MG
EMERGENCY INTERCONNECTIONS: descriptions, available gallonage(mgd): (1) 8" une - Hackensack Water
Company at Patterson Ave
Est Tot Avail:
AUXILIARY POWER: location, type, capabilities: Two natural gas priver seems with Public 2.
Electric to Gas Company One dies I newatel Emergines source,



# NJDEP - DIVISION OF WATER RESOURCES PUBLIC COMMUNITY WATER SUPPLY INSPECTION



					<u> </u>
	4.1. \$	DELIVERY INFORMATION		•	
PLANT DELIVER	RED WATER July August conth.year) Max 1.15 mg (			Annual Average	110
(mga,m	max 1.15 Mg	Min 105	- Ky -	WACIARC	1.10 mgD
<b>BULK PURCHAS</b>	ES (provider, mgd) Passa	ic Valley Water Comm	ission (No	centractuala	mcint)
BULK SALES (cu					
- o ser pures fee	ocomor, mgu)   N		<u> </u>		
NUMBER OF SEI				% METERED 96	
MUNICIPALITIES		•••	Net	Hetereci + High	いっとう じゅうむし
(est. service	es in each) Wallingto	2N		<u> </u>	alk Schail
					· · · · · · · · · · · · · · · · · · ·
				ESTIMATED	-
CURRENT/RECE	ENT		POPULA	ATION SERVICEI	11,500
WATER RESTRIC	CTIONS None				
NEW CONSTRUC	TION		1	1/	
(Project Nur	noers) rebuild boosk	er on Mant Piersant		مى	
DISTRIBUTION P				(max)	
	Pressures 40		ريو 20	(max)	
	Hydrants/Flushing	Program Spuns/Fall	<del></del>		
		MONITORING & REPORTIN	I <u>G</u>		
	PARAMETER(S)	FREQUENCY REQUIRED	FREQUEN	CY PERFORMED	7
•					╛
	Coliform	1C/monto	16/mant	11	] .
	Inorganics	Vyeis	47/31	•	<b>-</b>
	Nitrate Trihalomethanes	-	14/18/	٧	4
	Organics	1/3 year	7/1/2/91		-
	Turbidity	1 Jyear	111911		┪
	Secondary	Vugur	6/4/91		
	A-2807	ilyear	U/13/	91	]
,	Radionichaes	1/4 year Grackely	1		<u> </u>
		1	<u> </u>		
AME OF LABOR	ATORY Passaic Vall	ey Water Commission	CER	RTIFICATION #	16047
	le Falls, NJ	1			
TITI	ic juib, NJ		<del></del>		
		COMPLIANCE EVALUATIO	<u>N</u>		•
Of IDCE DECISION	NCIES None		_		
OURCE DEFICIE	NCIES TOTIE				
					<u> </u>
— <del></del>					
	A 1				
REATMENT DEF	ICIENCIES None		<del></del>	<del></del>	
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ATTACHMENT BB

# BUREAU OF FIELD OPERATIONS - SITE ASSESSMENT SECTION REPORT OF PHONE CALL

ATE 10	129 93							
IME	•							
ITE NAME	Sulbe	) PAINT	-				<del>-</del>	
OCATION	WALL	NGTON,	BERGE	<u>) Co.</u>			<b>-</b>	
ALLED	Frank	L Sonce	<u> </u>				_	
	VITACTED /	Robert	Siery			PHONE NO. 2	<del>301-777</del>	7-1796
			DIE:	: 000	.5			
PEILINION		700 J	+Po	Public	Supply	Wells	M	
Nalle Nalle	of CALL _!	are of	on-op	vations	Suggly 1 due	to voc	Contar	resation
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# METRO BUREAU OF REGIONAL ENFORCEMENT - GROUND WATER UNIT A-280 / GROUND WATER INVESTIGATION REFERENCE GUIDE

### CASE HISTORY REVIEW

Wallington Ground Water investigation CASE NAME:

Wells # 5, # 8, Lester St. & Dull Field CONTAMINATED WELL:

> Wallington Water Department PURVEYOR:

MUNICIPALITY/COUNTY: Wallington/Bergen County

CASE SUMMARY: BSDW referred to MBRE on December 18, 1985. An industrial survey in the area revealed several possible PRP's. Information reviewed by New Jersey Geological Survey indicates Curtiss-Wright Corporation is a potential responsible party.

Number of wells in system: 5	Wellfield capacity: 1.1 MGD
Number of Contaminated wells: 4	Maximum Daily demand: 1.5 MGD
System storage capacity: 1.0 MGD	Average Daily demand: 1.1 MGD

Passaic Valley Water Comm. Alternate supply: All 5 wells out of service Current treatment:

				SAMPLE DATE
WELL - LOCATION	-	CONTAMINANTS	-	& RESULTS

85 ppb 35 ppb 8/85 Trichloroethene 1/86 Tetrachloroethene 7 ppb 1/86 1,1,1-Trichloroethane 7/85 Trans 1,2-dichloroethene 1,100 ppb

# PRP / CONTAMINANT SOURCE:

.Possible PRP's: Curtis Wright Industrial Latex

Jasontown Apartments (former landfill)

Cellofilm/Woodridge

Farmland Dairies - UST's

ATTACHMENT DD

ENVIRONMENTAL PROTECTION DIVISION



DEPARTMENT OF HEALTH SERVICES
327 Ridgewood Avanue
Paramus. NJ 07652-4895
899-6100

TEL.: (201) 599-6267

FAX: (201) 599-

# FAX COVER LETTER

	DATE:	S
TO:	•	
Karen Hiering NJDEP		
WE ARE TRANSMITTING (PAGE(S) INCLUDING THE TRANSMISSION IS NOT COMPLETE, PLEASE NOTIFY	IS PAGE	•••
	HI-HADAN	ELY
COMMENTS:		ELY
	aramban,	ELY

SIGHED BY: Morchouse

# Municipal Water Sources

· · · · · · · · · · · · · · · · · · ·	
AllendaleAllendale water (wel:	ls)
Alpineprivate wells	
BergenfieldHack. water	
BogotaHack. water	
CarlstadtHack. water	
Cliffside Park	
ClosterHack. water	
CreskillHack. water	
DemarestHack. water	,
Dumont	
E. RutherfordHack. water	
EdgewaterHack. water	
Elmwood ParkPassaic Valley Water	Co
EmersonHack. water	
EnglewoodHack. water	
Englewood CliffsHack. water	
Fair LawnP.V.W.C.	
FairviewHack. water	
Fort LeeHack, water	
Franklin Lakes	
GarfieldP.V.W.C.	
Glen RockRidgewood water (well	s)
HackensackHack. water	-,
Harrington ParkHack. water	
Hasbrouck HeightsHack. water	
HaworthHack. water	
Hillsdale	

MAY 21 '91 14:55 BERGEN ENVIRONMENTAL DIVI	SION P.3/4
no-no-kus	
Leonia	
Little Ferry	Hack. water
Lodi	E.V.W.C.
Lyndhurst	Lynhurst water (Jersey
Mahwah	City Aqueduct)  —————private wells, Mahwah
Maywood	water (wells)
Midland Park	Ridgewood water (wells
Montvale	Hack. water
Moonachie	
New Milford	
North Arlington	North Arlington water
Northvale	(Jersey City Aqueducty
Norwood	
Oakland	water (wells)
Old Tappan	Hack. water
Oradell	
Palisades Park	
Paramus	
Park Ridge	Park Ridge water-wells
Ramsey	Ramsey water (wells)
Ridgefield	
Ridgefield Park	
Ridgewood	Ridgewood water-wells
River Edge	Hack. water
River Vale	Hack. water
Rochelle Park	Hack. water
·	·

RockleighHack. water
RutherfordHack. water
Saddle BrookHack. water
S. HackensackHack. water
TeaneckHack. water
TenaflyHack. water
TeterboroHack. water
Up. Saddle RPrivate wells
WaldwickWaldwick water-wells
WallingtonP.V.W.C.
Washington TwpHack. water
WestwoodHack. water
Woodcliff LakePark Ridge water-wells
Wood-RidgeHack. water
WyckoffRidgewood water-wells

# PRIVATE WELLS

TOWN	NUMBER	STREET
GLEN ROCK		RUTLAND RD. RUTLAND RD.
MIDLAND PARK	108	BANK ST.
RIDGEWOOD	659	ELLINGTON RD.
	281	GARDNER RD.
	718	HEIGHTS RD.
	338	HIGHLAND AVE.
	467	HUNTER RD.
	415	LUCILLE CT.
	675	TERHUNE RD.
WYCKOFF		EDER AVE.
	786	FREDERICK CT.
	305	GODWIN AVE.
	· 692	TERRACE HEIGHTS
	307	WYCKOFF AVE.

ATTACHMENT EE

# HACKENSACK DEPARTMENT OF HEALTH

OCT. 15, 1991 WATER WELLS

HACKENSACK HE ... TH DEPT, 215 STATE ST. HACKENSACK, N. J. 07601

	WELLSITE STREET	STO	CATEGORY	STATUS	OWNERLNAME	04	OSTREET	OCITY	<u>ost</u>	OZIP	COMMENTS
-	ATLANTIC ST	111	water	INACTIVE	MATTHIAS	111	ATLANTIC ST	HACKENSACK	NJ	07601	TEL. 487-2638, NOT CAPPED, NOT SEALED AS OF AUG. 1931
	CLEVELAND ST		WATER	ACTIVE =	GRASSINI	054	CLEVELAND ST	HACKENSACK	NJ	07601	
	CONKLIN PL		WATER		FIRST BAPTIST CHURCH	015	CONKLIN PL	HACKENSACK	NJ	0760L	NON-POTABLE, USED FOR COOLING IN A/C
	DANIEL ST		WATER	INACTIVE		194	DANIEL ST	HACKENSACK	NJ	07601	CAPPED
	ELIZABETH ST		WATER		NEWMAN FISH FOOD INC	044	ELIZABETH ST	HACKENSACK	NJ	07601	NO X-CONNECTION, NO BACKFLOW TESTS.
	FAIRHOUNT AV.		WATER	1	- MUSCARELLE	300	FAIRMOUNT AV	HACKENSACK	NJ	07601	POTABLE USE
	HACKENSACK AV		WATER		BLOOMINGDALES	400	HACKENSACK AV	HACKENSACK	NJ	07601	CAPPED
			WATER		ORITANI MOTEL	414	HACKENACK AV	HACKENSACK	NJ	07601	PUBLIC NON-COMM, TRANSIENT, USED TO FILL POOL
-	HENRY PL		WATER		MISNIEWSKI	013	HENRY PL	HACKENSACK	NJ	07081	POTABLE USE
	HODGER ST	220	WATER	ACTIVE _	JANEIRO	220	HOPPER ST	HACKENSACK	NJ	07081	
	HUDSON ST		WATER		BERGEN COUNTY WHOLESALE MEATS	154	HACKENSACK AV	HACKENSACK	NJ	07601	REFER TO AUG 1988 LETTER
			WATER		EWS CORP. C/O RON SEILHEIMER	006	COLONIAL RD	EMERSON	ИJ	0763 <b>0</b>	ABANDONED, NOT SEALED AS OF AUG, 1988
	MAIN ST	309	WATER	ACTIVE .	FOX THEATRE	303	MAIN ST	HACKENSACK	NJ	07081	USED FOR A/C'IN PRIOR THEATRE COMPLEX ON THIS SITE
		355	WATER	INACTIVE	COUNTY OF BERGEN	355	MAIN ST	HACKENSACK	NJ	07081	DEP #10435W, USED FOR A/C
		630	WATER	INACTIVE	PACKARD	630	MAIN ST	HACKENSACK	NJ .	07081	المعاصدات المدادات
	MIDTOWN BRIDGE	085	WATER	INACTIVE	BOWLER CITY	085	MIDTOWN BRIDGE	HACKENSACK	NJ	07081	CAPPED
	MOGRE ST	250	WATER	INACTIVE	UNITED JERSEY BANK	250	MODRE ST	HACKENSACK	NJ	07081	
ج.	MYERS ST	092	WATER	ACTIVE <	CARMONA, VICTORY LAUNDROMAT	71 1/2	MAIN ST	HACKENSACK	ЙŢ	07081	PERMIT 642
	POLIFLY RD	040	WATER	INACTIVE	PLAYERS CLUB	040	POLIFLY RD	HACKENSACK	NJ	07081	SEALED APRIL 89
		083	WATER	INACTIVE	CANADA DRY	088	POLIFLY RD ST	HACKENSACK	NJ	07081	
	RIVER ST	150	WATER	INACTIVE	BERGEN RECORD	150	RIVER ST	HACKENSACK	NJ	07601	CAPPED
		200	WATER	INACTIVE	CIRCLE BRAKE SERVICE	200	RIVER ST	HACKENSACK	ŊĴ	07601	OWNER REPORTS "NO WELL"
		424	WATER	ACTIVE	SPOTLESS AUTO LAUNDRIES	424	RIVER ST	HACKENSACK	NJ	07601	AUTO WASHING
	ROUTE 17 SOUTHBOUN	361	WATER	INACTIVE	REGENCY CAR WASH	361	ROUTE 17	HACKENSACK	ŊJ	07601	CAPPED
	SO NEWMAN ST	125	WATER								OWNER REPORTS "NO WELLS"
		130	WATER	INACTIVE	CAST OPTICS	130	SO NEWMAN ST	HACKENSACK	NJ	07601	CONFIRM STATUS
		135	WATER	INACTIVE	CERAGRAPHIC	135	SO NEWMAN ST	HACKENSACK	NJ	07601	CONFIRM STATUS, OWNER REPORTS "NO WELL"
	٠ ,	- 221	WATER	ACTIVE -	- POLYCAST \	221	SO. NEWMAN ST	HACKENSACK	· NJ	07081	
	SO SUMMIT AV	260	HATER	INACTIVE	COCIELLOE	•					WELL PIPE CAPPED AUG. 1991 BUT WELL IS NOT SEALED
		284	WATER	INACTIVE	STASSI .	284	SO SUMMIT AV	HACKENSACK	NJ	07601	CAPPED
	H	300	WATER	ACTIVE	KARRECES	300	SO SUMMIT AV	HACKENSACK	ŊĴ	07601	NON-POTABLE
	SLMMIT AV	435	WATER	ACTIVE	USCHER	435	SUMMIT AV	HACKENSACK	NJ	07601	NON-POTABLE USE
9	SUSSEX ST	135	WATER	ACTIVE -	BEAM	135	SUSSEX ST	HACKENSACK	NJ	07601	POTABLE
<b>X</b>	TEMPLE AV		WATER	ACTIVE	HACKENSACK WATER CO	500	OLD HOOK RD	HARRINGTON PARK	NJ	ú7640	PIPE YARD
	SLIMMIT AV SLISSEX ST TEMPLE AV									,	

# Private Wells, New Milford, Bergen County

625 Columbia Street 💛

674 Columbia Street

294 Luhman Drive -

1041 Steuban Avenue +

216 Voorhis Avenue -

ATTACHMENT FF

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# New Jersey 1988 State Water Quality Inventory Report

A Report on the Status of Water Quality in New Jersey Pursuant to the New Jersey Water Pollution Control Act and Section 305(b) of the Federal Clean Water Act

State of New Jersey
Department of Environmental Protection
Division of Water Resources
Bureau of Water Quality Planning
Trenton, New Jersey

Thomas H. Kean, Governor Richard Dewling, P.E., Ph.D., Commissioner George G. McCann, P.E., Director

May, 1988



# 37. HACKENSACK RIVER

# Watershed Description

The Hackensack River drains an area of 202 square miles, which includes parts of Hudson and Bergen Counties. The Hackensack originates in New York State and flows south to Newark Bay. The river is 31 miles long in New Jersey. Major tributaries include the Pascack Creek, Berry's Creek, Overpeck Creek, and Wolf Creek. The major impoundments on this river are Oradell Reservoir, Lake Tappan, and Woodcliff Reservoir. This region of the State is very populated; major cities being Paramus, Bergenfield, Secaucus, Hackensack, Fort Lee, Jersey City and Englewood. Much of the Lower Hackensack watershed is tidal marshes known as the Hackensack Meadowlands.

About 50 percent of the land use in this watershed is undeveloped, with more than 30 percent being residential. The remainder is commercial/industrial. Of the approximately 78 NJPDES permitted discharges here, 67 are industrial/commercial and 9 are municipal. Waters in the Hackensack River and its tributaries have been classified as FW-2 Nontrout, FW-2 Trout Production (Creskill Brook), SE-1, SE-2 and SE-3.

# **Water Quality Assessment**

The Hackensack River is routinely monitored at two locations: at River Vale and at New Milford. The New Milford station is directly downstream of the Oradell Reservoir dam. The Hackensack River has overall good quality waters at River Vale, and at New Milford.

Elevated total phosphorus and fecal coliform concentrations are present in the Hackensack River at River Vale. Fecal coliform had a geometric mean of 148 MPN/100ml from 1983 to 1987, with 37 percent of the values above State criterion. Total phosphorus averaged .21 mg/l during the period of review. Seventy-eight percent of the phosphorus readings were greater than the .05 mg/l criterion for prevention of eutrophication

in impoundments. Dissolved oxygen concentrations are adequate throughout the year, although saturation often falls below 80 percent during the summer. Biochemical oxygen demand is for the most part under 4.0 mg/l. Conditions in the Hackensack at River Vale worsen significantly during the late summer months.

Monitoring of the Hackensack River at New Milford reflects the condition of the Oradell Reservoir discharge, rather than true Pollutant concentrations stream conditions. tend to be reduced because of settling in the This is why the Hackensack reservoir. River can be considered good at this loca-Both fecal coliform and nutrients are low, occurring at problematic levels in 30 and 38 percent respectively, of the samples Dissolved oxygen concentrations collected. were above 4.0 mg/l in all samples from 1983 to 1987. One elevated mercury concentration has been found in the Hackensack River during the period of review.

The Hackensack Meadowlands Development Commission has conducted an annual summer monitoring program of the tidal Hackensack River and tributaries since 1971. Cheng and Konsevick (In press) have summarized the results of monitoring from 1978 to 1987 for the mainstem tidal Hackensack Monitoring results show very low River. dissolved oxygen (less than 1.0 mg/l) in the river during summer months, along with high levels of biochemical oxygen demand, oil and grease, and fecal coliform. The 10 mile stretch of the river analyzed had no significant changes in water quality for selected indicators over the period reviewed. The river shows important differences between monitoring sites indicating that impacts do occur locally.

Fishery assements by the NJ Division of Fish, Game and Wildlife were limited to the Cresskill River in the Upper Hackensack watershed and to Overpeck Creek, a tributary to the Lower Hackensack. Both are evaluated as supporting moderately degraded fish communities. The Cresskill contains cold water fish species while the Overpeck supports warm water forms.

## **Problem and Goal Assessment**

### **Point Source Assessment**

The Upper Hackensack River as monitored at River Vale and New Milford does not show However, in severe water quality problems. the lower tidal sections of the river, extremely high bacterial and nutrient levels are present, as well as reduced dissolved oxygen, and thermal pollution. A large number of industrial and municipal wastewater discharges are present in the lower watershed. Twenty-six dischargers in the watershed which are under enforcement action are having deleterious impacts on stream water quality. Problems range from raw sewage by-passes, to illegal discharges and not meeting permit limitations. In addition, nonpoint pollution contributions from urbanized and industrial areas, landfills and sediment oxygen demand are also considered to be significant.

Seven hazardous waste or Superfund sites are found in the Hackensack watershed which are known or suspected to be contaminating local surface waters. In addition, extensive mercury contamination of Berry's Creek has occurred. Certain fish from the Lower Hackensack River have been identified to contain high PCBs and chlordane concentrations. As a result, the sale and consumption of striped bass and blue crabs is prohibited. Large thermal discharges in this area also have water quality impacts on the tidal Hackensack River by reducing the water's ability to hold dissolved oxygen.

### **Nonpoint Source Assessment**

Water quality in the Hackensack River above the Oradell River appears to primarily be affected by nonpoint sources. Oradell Reservoir is highly eutrophic and the Hackensack Water Company occasionally treats the reservoir to kill aquatic weed growth. Nonpoint source pollutants include those brought about by extensive urban/suburban development, and by the land disposal of waste materials. The Upper Hackensack is reported to be impacted by

runoff from construction activities, urban surfaces, storm and combined sewers, roads, and by landfill leachate. These sources have resulted in flooding, habitat destruction for biota, fish community degradation, reduced dissolved oxygen levels, excessive nutrients, and accelerated eutrophication. In the Lower Hackensack River the presence of these sources continues and their impacts become even more severe. Habitat destruction becomes more intense in the lower river due to riparian vegetation removal and flow regulation efforts. are also severe impacts from chemical spills, local landfills, hazardous waste disposal sites, and inplace contaminants.

# Designated Use and Goal Assessment

The Upper Hackensack River (above the Oradell Reservoir) will achieve the fish propagation and maintenance goal of the Clean Water Act and the State's designated use, but it is not of swimmable quality. In the tidal Hackensack, both the fishable and swimmable goals cannot be met. Based on the Hackensack Meadowland Development Commission's sampling of the tidal Hackensack and tributaries this region is not considered to be meeting the designated uses for SE-2 and SE-3 waters.

# **Monitoring Station List**

Map Number	Station Name and
	Classification
1	Hackensack River at
•	River Vale,
	FW-2 Nontrout
2	Hackensack River at
•	New Milford,
	FW-2 Nontrout

# HACKENSACK RIVER

NEW JERSEY STATE WATER QUALITY
INVENTORY REPORT

HUDSON RIVER

PASSAIC RIVER



# LEGEND

STATE BOUNDARY
STREAM
COUNTY BOUNDARIES
MUNICIPAL BOUNDARIES
WATERSHED BOUNDARIES

WATER SAMPLING STATIONS

LOCATION OF BASIN

ATTACHMENT FRY

# ATTACHMENT ++->

# WATER_QUALITY_INDEX_PROFILE_1983-1987.

### Hackensack River

### WATER QUALITY INDICATORS

STATION	. !	TEMP	OXYGEN	PII	BACTERIA	NUTRIENTS	SOLIDS	AMMONIA	METALS	OVERALL AVERAGE AND CONDITION
Hackensack   River At	AVG WQI	2	13	4	20	32	9	6	6	23 Good
River Vale	WORST3 MONTHS		August- Oct	March- May	August- Oct	July- Sept	Jan- March	July- Sept	Sept- Nov .	40 Fair Aug-Oct
1	. i i		.i				,			
	AVG WQI	4	9	8	17	17	9	1	17	15 Good
New Millord	WORST3 MONTHS		Nov- Jan	May- July	May- July	May- July	Jan- March	Nov- January	August- Oct	22 Good May-July

LEGEND - Hater Quality Index Description

HQI Condition Description

-10 Excellent No or minimal pollution; water uses met throughout

ion; 61-80 Foor Pollution in high amounts; ghout water uses not met.

the year.

Generally low amounts of pollution; water uses periodically not set.

81-100 Very Poor

Follution occurs at extremely high levels; severe stress to stress life; water uses not set.

26-GO Fair

11-25 Good

Pollution amounts vary from moderate to high levels; certain water uses prohibited. ID Insufficient Data

An index of 20 is equivalent to the level of water quality criteria.

DISCHARGE NAME

!Arsynco. Inc Becton-Dickinson !Matheson Gas Prod., Inc. Co

!US Printing Ink Co |Joint Mfg.

INJ Sports & Expo Auth !Howmedica, Inc. ! Penreco

!Sika Chem. Corp. Benedict-Miller. Inc

!Secaucus Town STP IN. Arlington-Lyndhurst Jt. Mg!0025291

!Amerada Hess-Little Ferry !Teterboro Airport PSE&G-Bergen Generating

Bergen Co. Ut. Auth !Metro Oil & Chem Corp

Yoo-Hoo Bev. Co. !Tec Cast

!Grobet File Co of America !Colorite Plastics Co. Transcontinental Gas Pipeline 0002101

|Metal Improvement Com Howard Johnson Co |Sears Roebuck & Co

Diamond Shamrock Corp. US Postal Ser Kearny

# NJPDES

!Hackensack River

!Hackensack River !Tenakill River !Hackensack River

!Berrys Creek 10021586 10002798 !Berrys Creek Berrys Creek 10028991

10005754 Berrys Creek Berrys Creek 10030970

!Berrys Creek 10001074 !Ackermans Creek 10002721

!Berrvs Creek 10003646 Berrys Creek 10022756

10003310

10001414

10003786

10031194

10025038

10001406

10028941

10000621

10020028

10031500

10003344

0033405

10029378

10000132

0003719

:0028410

10020508

10002402

10027758

!Berrys Creek 10023345 !Berrys Creek 10003468

!Kingsland Creek 10031607 Berrys Creek 10002011 10001031

!Hackensack River !Miller Creek !D. to Hackensack R.

Hackensack River Berrys Creek

!Hackensack River !Hackensack River

!Wolfs Creek Berrys Creek

!Drainage Ditch !Hackensack River !Sweetkill Creek

!Hackensack River !Drainage Ditch

!Penhorn Creek !Penhorn Creek

!Hackensack River Dead Horse Creek WATERSHED: HACKENSACK RIVER

Ordell Boro/Bergen !Ind/Comm !Ind/Comm Bogota Boro/Bergen |Cresskill Boro/Berge!Ind/Comm S. Hackensack/Bergen!Ind/Comm

|Wood-Ridge Boro/Ber |Mun. |Carlstadt/Bergen !Ind/Comm !Ind/Comm

|Carlstadt/Bergen |Carlstadt/Bergen !Ind/Comm !Ind/Comm |Carlstadt/Bergen !Ind/Comm

E. Rutherford/Bergen |E.Rutherford/Bergen |Ind/Comm

!E.Rutherford/Bergen !Ind/Comm !E.Rutherford/Bergen ! Mun

|E.Rutherford/Bergen |Mun/Storm |Rutherford/Bergen !Ind/Comm LyndhurstTwp/Bergen |Ind/Comm

|Lyndhurst/Bergen Ind/Comm Lyndhurst/Bergen !Ind/Comm

! Mun |Secaucus/Hudson N.Arlington/Bergen ! Mun !Little Ferry/Bergen !Ind/Comm

!Ind/Comm |Teterboro/Bergen !Ridgefield Boro/Berg!Ind/Comm

Little Ferry/Bergen | Ind/Comm !Ind/Comm !Ridgefield/Bergen

|Carlstadt/Bergen !Ind/Comm ! Ind/Comm |Carlstadt/Bergen !Thermal/Sto |Carlstadt/Bergen

!Ind/Comm |Carlstadt/Bergen |Carlstadt/Bergen ! Ind/Comm !Ind/Comm

|Jersey City/Hudson !Ind/Comm |Secaucus/Hudson ! Ind/Comm

N.Bergen/Hudson !Ind/Comm !Jersey City/Hudson

Mun !Kearny/Hudson

	т	ъ	ъ	172	C	DISCHARGE	TNUENTORY
N	. I	Ρ.	. 1) .	Н.	S	DISCHARGE	THACHIONI

MUNICIPALITY/COUNTY RECIEVING WATERS # NJPDES Ind/Comm |Kearny/Hudson !Hackensack River 0000655 PSE&G Kearny Generating !Ind/Comm !Kearny/Hudson !Hackensack River 0000451 !Marzahl Chem Co |Jersey City/Hudson ! Ind/Comm !Hackensack River :0031747 Eastern of NJ, Inc !Ind/Comm !Kearny/Hudson !Hackensack River 10022161 !Kearny Town STP |Jersey City/Hudson ! Mun !Hackensack River Degen Oil & Chem Co. 10030791 |Secaucus/Hudson !Ind/Comm !Hackensack River 10032921 !Secaucus MUA Harts MT. |Secaucus/Hudson !Ind/Comm !Hackensack River 10028584 Gilbert Ind Pk !Ind/Comm |Jersey City/Hudson Penhorn Creek Clipper Express Co.WWTP 10027251 |Jersey City/Hudson ! Ind !Hackensack River PSE&G Hudson Generating Sta 10000647 ! Ind/Comm |Kearny Town/Hudson 0001856 !Hackensack River Standard Chlorine Chem. Co. !S. Hackensack/Bergen!Ind/Comm |East Riser Ditch !Spinnerin Yarn Co., Inc. :0002038 !Ind/Comm |Teterboro/Bergen West Ditch 10002097 Bendix Corp. |Carlstadt Boro/Bergn|Thermal :0030996 !Hackensack River General Auto. Spec. Co. |Jersey City/Hudson ! Ind/Comm !Hackensack River 10000574 ! PSE&G |Kearny Town/Hudson !Ind/Comm !Hackensack River 10031313 !Kleer Kast Inc. Thermal Hudson County !Hackensack River !Owens-Corning Fiberglass 0035025 !Industrial !Secaucus/Hudson 0001368 !Hackensack River !Amerada Hess Corp. Industrial !South Kearny !Hackensack River 0025631 !Columbia Terminal Inc. !Municipal !Secaucus/Hudson !Hackensack River 10023566 !Meadowview Hospital !Thermal |Sparkill Brook |Carlee Corporation 0050113 !Thermal !Carlstadt/Bergen Berrys Creek 10004146 !Inversand Company Sewell !Industrial !Carlstadt/Bergen 0032522 !Berrys Creek !Cosan Chemical Corp !Thermal |Carlstadt/Bergen !Hackensack River 10032590 !Spear Packing Corp Carlstadt/Bergen !Thermal !Moonachie Creek Alfa Inc & Chemical Corp 0050300 !Industrial !Closter/Bergen Oradell Res 10032620 Weyerhauser Company |East Rutherford/Ber |Industrial !Hackensack River 10035769 |Chemed Corp- Dubois Div |Hackensack/Bergen !Municipal 10030805 !Hackensack River !Hackensack City !Ind/Oil/Wse! !Hackensack/Bergen !Hackensack River 10032603 !Classified Inc !Thermal !Hackensack/Bergen !West Rider Polycast Technology 10034819 !Little Ferry/Bergen !Thermal | Hackensack River 10052736 !Atlas Plastics !Lvndhurst/Bergen !Municipal Hackensack River 10035131 !Standard Tool & Mfg Co !Municipal Lyndhurst/Bergen Hackensack Meadowlands 10053082 Hackensack River

WATERSHED: HACKENSACK RIVER

**Ⅲ-28**3

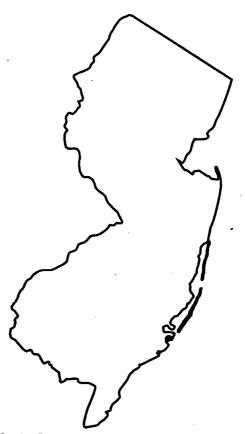
ATTACHMENT GG

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# Water Resources Data New Jersey Water Year 1992

Volume 1. Surface-Water Data



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-92-1 Prepared in cooperation with the New Jersey Department of Environmental Protection and Energy and with other agencies



### RESERVOIRS IN HACKENSACK RIVER BASIN

- 01376700 DE FOREST LAKE.--Lat 41°06'23", long 73°58'01, Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.8 mi north of West Nyack, NY. DRAINAGE AREA, 27.5 mi². PERIOD OF RECORD, February 1956 current year. REVISED RECORDS.--WDR NJ-84-1: Drainage area. GAGE, water-stage recorder. Datum of gage is sea level. REMARKS.--Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Crest of dam topped by two 50 ft Bascule Gates, 5 ft high. Capacity 5,670,000,000 gal, elevation, 85.00 ft, top of Bascule gates. Flow regulated by 12-inch Howell-Bunger valve at elevation, 59.25 ft and 24-inch Howell-Bunger valve at elevation, 61.25 ft. Reservoir used for storage and water released by Hackensack Water Co., for municipal water supply.
- 01376950 LAKE TAPPAN.--Lat 41°01'05", long 74°00'05", Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River, 0.5 mi north of Old Tappan. DRAINAGE AREA, about 49.0 mi². PERIOD OF RECORD, October 1966 to current year. REVISED RECORDS, WDR NJ-89-1: Capacity. GAGE, Water-stage recorder. Datum of gage is sea level. REMARKS.--Reservoir is formed by earthfill dam, completed in 1966. Capacity, 3,853,000,000 gal, elevation, 55.00 ft at top of Bascule gates. Flow regulated by four Bascule gates and one stuice gate. Water is released that simply water supply.
  COOPERATION. -- Records provided by Hackensack Water Company.
- 01377450 WOODCLIFF LAKE...Lat 41°01', long 74°03', Bergen County, Hydrologic Unit 02030103, at dam on Pascack Brook, 0.7 mi north of Hillsdale. DRAINAGE AREA, 19.4 mi². PERIOD OF RECORD, December 1929 to current year. Monthend contents only, prior to September 1953, published in WSP 1302, 1722. REVISED RECORDS, WDR NJ-89-1: Capacity. REMARKS..-Reservoir is formed by earthfill dam, completed about 1905. The dam was modified in 1984, which increased capacity, 871,000,000 gal, elevation, 95.00 ft at top of Bascule gates. Flow is regulated by two Bascule gates 85 ft long and 6 ft high each and one 24-inch Ball valve. Water is released for diversion at New Milford (diversion discontinued May 1990) and Haworth by Hackensack Water Co., for municipal supply. COOPERATION. . . Records provided by Hackensack Water Company.
- O1378480 ORADELL RESERVOIR.--Lat 40°57', long 74°02', Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell. DRAINAGE AREA, 113 mi². PERIOD OF RECORD, December 1922 to current year. Monthend contents only, prior to September 1953, published in WSP 1302, 1722. REVISED RECORDS.--WDR NJ-84-1: Spillway elevation, WDR NJ-89-1: Capacity. GAGE, water-stage recorder. Datum of gage is sea level.

  REMARKS.--Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 3,507,000,000 gal, elevation, 23.16 ft. Flow regulated by seven sluice gates (7 by 9 ft). Prior to May 1990, water was released for diversion by Hackensack Water Co., 1 mi downstream from dam for municipal supply. Water COOPERATION.--Records provided by Hackensack Water Company, for municipal supply.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 Change in contents Change in Contents Contents contents Elevation (equivalent in ft³/s) (million Elevation (million Date (equivalent in ft³/s) (feet)+ gallons) (feet); gallons) 01376700 DE FOREST LAKE 01376950 LAKE TAPPAN Sept. 30..... 77.42 3,362 3,359 2,864 2,955 3,077 31.... 30.... 52.12 Oct. -0.1 52.40 52.77 54.09 Nov. +4.5 3,611 4,070 31..... Dec. +6.3 +22.9 3,529 +22.6 **CAL YR 1991** -7.3 -2.0 Jan. 80.14 4,160 52.26 2,909 -30.9 Feb. 4,289 4,695 5,036 4,632 5,544 80.57 31..... 2,608 3,574 Mar. 51.32 81.91 -16.6 +20.3 54.23 55.00 Apr. +48.2 +14.3 83.00 +17.6 31..... May 3,851 82.68 55.46 -20.2 +8.4 -7.7 June 30..... 4,019 84.61 84.20 +47.0 55.05 55.14 July 31..... 3,870 5,409 899 Aug 83.82 ,289 -6.0 54.52 Sept. 30..... 687 -10.6 -18.3 041 <u>- 18</u> WTR YR 1992 <del>+7.1</del> +2.0 Change in Change in Contents contents Contents contents Elevation (equivalent in ft 3/s) (million Elevation <u>Date</u> (million (equivalent in ft³/s) (feet)+ gallons) (feet)+ gallons) 01377450 WOODCLIFF LAKE 01378480 ORADELL RESERVOIR 94.03 816 3,014 2,746 2,794 2,662 21.28 90.27 614 -10.1 20.19 90.86 -13.4 645 644 +1.6 31..... 20.39 +2.5 -.05 19.84 -6.6 **CAL YR 1991** -.1 -2.3 89.23 88.74 91.17 Jan. -4.1 -1.4 +6.2 -.7 18.63 18.10 2,380 2,260 3,431 3,329 Feb. 29..... -14.1 Mar. -6.6 31..... 661 Apr. 22.88 +58.4 -5.3 +7.1 30..... 90.90 94.75 95.13 648 22.50 May 846 +9.9 23.03 22.06 21.30

WTR YR 1992 Elevation at 2400 of the last day of each month.

95.49

93.01

91,03

870

899

761

+1.7

+1.0

-6.9

30.....

31.....

31.....

Sept. 30.....

June

July

Aug.

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-11.3 -11.7

3,472 3,253 3,019 2,597

622

19.56

19.67

# HACKENSACK RIVER BASIN

# DIVERSIONS INTO AND FROM HACKENSACK RIVER BASIN

- 1376272 Hackensack Water Co., diverts water from Sparkill Creek (Hudson River basin) at foot of Danny Lane in Northvale, 300 ft south of New York-New Jersey state line and D.6 mi upstream of Sparkill Brook. Water is diverted into Oradell Reservoir on the Hackensack River, for municipal supply. Records provided by Hackensack Water Co.
- 1376699 Spring Valley Water Co., diverts water from De Forest Lake for municipal supply in Rockland County, NY. Records provided by Spring Valley Water Co.
- 01376810 Village of Nyack, NY, diverts water from Hackensack River 100 ft downstream from gaging station on Hackensack River at West Nyack, NY (station 01376800, measured flow includes diversions) for municipal supply. Records provided by Board of Water Commissioners of Nyack, NY.
- 01378490 Hackensack Water Co., diverts water for municipal supply from Oradell Reservoir at Haworth pumping station (station 01378478) 2.0 mi upstream from gaging station on Hackensack River at New Milford and prior to May 1990 from Hackensack River, at New Milford pumping station just upstream of gaging station on Hackensack River at New Milford, NJ (station 01378500). Diversion from the New Milford pumping station was discontinued in May 1990. Records provided by Hackensack Water Co.
- 01378520 Hackensack Water Co., diverts water from Hirshfeld Brook, a tributary of the Hackensack River, below the gaging station on Hackensack River at New Milford, NJ, for municipal supply. Records provided by Hackensack Water Co.
- 1388981 Hackensack Water Co., diverts water from the Wanaque South pumping station on the Pompton River at Two Bridges, 750 ft upstream from the Passaic River, to Oradell Reservoir. Water can also be diverted from Wanaque Reservoir to Oradell Reservoir in the Hackensack River basin. Figures given herein include diversion from both sources. Formerly diversion was from the Ramapo River (see station 01387991). Records provided by Hackensack Water Company.
- 01391210 Hackensack Water Co., diverts water from Saddle River (Passaic River basin) just north of bridge on State Route 4 at Arcola. Water is diverted into Oradell Reservoir on the Hackensack River, for municipal supply. Records provided by Hackensack Water Co.

DIVERSIONS, IN CUI	BIC FEET PER SECOND, WATER YE	AR OCTOBER 1991 TO SE	PTEMBER 1992
MONTH	01376699 SPRING VALLEY WATER CO.	01376810 WEST NYACK, NY	01378490 HACKENSACK WATER CO.
otoberovember	8.69 7.74 7.60	2.50 2.33 2.30	151 143 143
CAL YR 1991	8.95	2.55	161
January. February. Jarch April May. June July August. September	5.55 0 0 2.07 10.1 15.3 14.9 14.2	2.41 2.54 2.44 2.44 2.65 2.65 2.64 2.61 2.48	151 154 142 143 156 167 164 159
WTR YR 1992	8.43	2.50	152

The following are diversions by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above (station 01378490).

MONTH	01376272 SPARKILL CREEK (HUDSON RIVER BASIN)	01378520 HIRSHFELD BROOK (HACKENSACK RIVER BASIN)	01388981 POMPTON RIVER (PASSAIC RIVER BASIN)	01391210 SADDLE RIVER (PASSAIC RIVER BASIN)	WELLS TO SURFACE SUPPLY
ctober	0.03	1.66 1.46 .28	15.5 15.1 1.38	10.6 13.7 6.88	0.43 .46 .24
CAL YR 1991	.10	.97	21.0	4.21	.45
anuary. ebruary. larch. larch. larit. lay. lune. luly. lugust. leptember.	0 0.47 0 0 0 0	.19 1.70 2.33 0 1.01 1.63 2.22 0	0 0 41.8 30.6 60.6 28.8 43.1 12.0	5.24 8.53 13.2 0 2.23 10.8 - 16.3 0	.15 .23 1.19 .30 .81 .52 .59 .51
WTR YR 1992	.04	1.04	20.7	7.29	.50

ATTACHMENT HH



Surface Water Quality Standards N.J.A.C. 7:9-4.1 et seq.



AUGUST 1989

New Jersey Department of Environmental Protection
Division of Water Resources



"Measurable changes" means changes measured or determined by a biological, chemical, physical analytical method, conducted in accordance with USEPA approved methods as identified in 40 C.F.R. 136 or other analytical methods (for example, mathematical models, ecological indices, etc.) approved by the Department, that might adversely impact a water use (including, but not limited to aesthetics).

"Mixing zones" means localized areas of surface waters, as may be designated by the Department, into which wastewater effluents may be discharged for the purpose of mixing, dispersing, or dissipating such effluents without creating nuisances or hazardous conditions, or violating the provisions of this subchapter.

"Natural flow" means the water flow that would exist in a waterway without the addition of flow of artificial origin.

"Natural water quality" means the water quality that would exist in a waterway or a waterbody without the addition of water or waterborne substances from artificial origin.

"NJPDES" means New Jersey Pollutant Discharge Elimination System.

"NOEC" means the "no observable effect concentration", which is the highest concentration of a toxic substance that has no adverse effect(s) on survival, growth, or reproduction of species based upon the results of chronic toxicity testing.

"Nondegradation waters" means those waters set aside for posterity because of their clarity, color, scenic setting, other characteristic of aesthetic value, unique ecological significance, exceptional recreational significance, or exceptional water supply significance. These waters include all waters designated as FW1 in this subchapter.

"Nonpersistent" means degrading relatively quickly, generally having a half-life of less than 96 hours.

"Nontrout waters" means fresh waters that have not been designated in this subchapter as trout production or trout maintenance. These waters are generally not suitable for trout because of their physical, chemical, or biological characteristics, but are suitable for a wide variety of other fish species.

"NPDES" means National Pollutant Discharge Elimination System.

"NT" means nontrout waters.

"Nutrient" means a chemical element or compound, such as nitrogen or phosphorus, which is essential to and promotes the growth and development of organisms.

"Outstanding National Resource Waters" means high quality waters that constitute an outstanding national resource (for example, waters of

National/State Parks and Wildlife Refuges and waters of exceptional recreational or ecological significance) as designated in N.J.A.C. 7:9-4.15(i).

"Persistent" means relatively resistant to degradation, generally having a half life of over 96 hours.

"Pinelands waters" means all waters within the boundaries of the Pineland Area, except those waters designated as FW1 in this subchapter, as established in the Pinelands Protection Act N.J.S.A. 13:18A-1 et seq., and shown on Plate 1 of the "Comprehensive Management Plan" adopted by the New Jersey Pinelands Commission in November 1980.

"PL" means the general surface water classification applied to Pinelands Waters.

"Primary contact recreation" means recreational activities that involve significant ingestion risks and includes, but is not limited to, wading, swimming, diving, surfing, and water skiing.

"Public hearing" means a legislative type hearing before a representative or representatives of the Department providing the opportunity for public comment, but does not include cross-examination.

"River mile" means the distance, measured in statute miles, between two locations on a stream, with the first location designated as mile zero. Mile zero for the Delaware River is located at the intersection of the centerline of the navigation channel and a line between the Cape May Light, New Jersey, and the tip of Cape Henlopen, Delaware.

"Saline waters" means waters having salinities generally greater than 3.5 parts per thousand at mean high tide.

"SC" means the general surface water classification applied to coastal saline waters.

"SE" means the general surface water classification applied to saline waters of estuaries.

"Secondary contact recreation" means recreational activities where the probability of water ingestion is minimal and includes, but is not limited to, boating and fishing.

"Shellfish" means those mollusks commonly known as clams, oysters, or mussels.

"Shellfish waters" means waters classified as Approved, Seasonally Approved, Special Restricted, Seasonally Special Restricted or Condemned that support or possess the potential to support shellfish which are within the Coastal Area Facility Review Act (C.A.F.R.A.) zone as delineated in 1973, (excluding: 1 - The Cohansey River upstream of Brown's Run; 2 - The Maurice River upstream of Route 548;

- 1. It is demonstrated to the satisfaction of the Department that the waters should be set aside to represent the natural aquatic environment and its associated biota; or
- 2. It is demonstrated to the satisfaction of the Department that a more restrictive use is necessary to protect a unique ecological system or threatened/endangered species.
- (g) In those cases in which a thermal discharge is involved, the procedures for reclassifying segments for more restrictive uses shall be consistent with section 316 of the Federal Clean Water Act.
- 7:9-4.12 Designated uses of FW1, PL, FW2, SE1, SE2, SE3, and SC Waters
  - (a) In all FW1 waters the designated uses are:
    - Set aside for posterity to represent the natural aquatic environment and its associated biota;
    - Primary and secondary contact recreation;
    - Maintenance, migration and propagation of the natural and established aquatic biota; and
    - 4. Any other reasonable uses.
  - (b) In all PL waters the designated uses are:
    - 1. Cranberry bog water supply and other agricultural uses;
    - Maintenance, migration and propagation of the natural and established biota indigenous to this unique ecological system;
    - Public potable water supply after such treatment as required by law or regulations;
    - 4. Primary and secondary contact recreation; and
    - 5. Any other reasonable uses.
  - (c) In all FW2 waters the designated uses are:
    - 1. Maintenance, migration and propagation of the natural and established biota;
    - 2. Primary and secondary contact recreation;
    - Industrial and agricultural water supply;

- 4. Public potable water supply after such treatment as required by law or regulation; and
- 5. Any other reasonable uses.
- (d) In all SE1 waters the designated uses are:
  - 1. Shellfish harvesting in accordance with N.J.A.C. 7:12;
  - 2. Maintenance, migration and propagation of the natural and established biota;
  - Primary and secondary contact recreation; and
  - 4. Any other reasonable uses.
- (e) In all SE2 waters the designated uses are:
  - Maintenance, migration and propagation of the natural and established biota;
  - Migration of diadromous fish;
  - 3. Maintenance of wildlife;
  - 4. Secondary contact recreation; and
  - 5. Any other reasonable uses.
- (f) In all SE3 waters the designated uses are:
  - Secondary contact recreation;
  - 2. Maintenance and migration of fish populations;
  - 3. Migration of diadromous fish;
  - 4. Maintenance of wildlife; and
  - 5. Any other reasonable uses.
- (g) In all SC waters the designated uses are:
  - 1. Shellfish harvesting in accordance with N.J.A.C. 7:12;
  - Primary and secondary contact recreation;
  - 3. Maintenance, migration and propagation of the natural and established biota; and
  - 4. Any other reasonable uses.



	•
(Hewitt) - Those segments located entirely within the Hewitt State Forest	FW1(tp)
boundaries	
CDEEN DOND (Pockaway)	FW2-TM
GREEN POND BROOK (Picatinny Arsenal) - Green Pond outlet to Rockaway River	FW2-NT
GREENWOOD LAKE (W. Milford)	FW2-TM
HACKENSACK RIVER	FW2-NT
(Oradell) - Source to Oradell dam	SE1
(Oradell) - Main stem and saline tributaries	U
from Oradell dam to the confluence with	
Overpeck Creek	SE2
(Little Ferry) - Main stem and saline	362
tributaries from Overpeck Creek to Route	
1 and 9 crossing	0.00
(Kearny Point) - Main stem downstream from	SE3
Route 1 and 9 crossing	
TRITARTES	
(Oradell) - Tributaries joining the main stem	FW2-NT/SE1
between Oradell dam and the confluence	•
with Overneck Creek	
(Little Ferry) - Tributaries joining the main	FW2-NT/SE2
stem downstream of Overpeck Creek	
HANKS POND (Clinton) - Pond and all tributaries	FW1
HARMONY BROOK (Brookside) - Entire length	FW2-TP(C1)
HARMONY BROOK (Brookside) - Entire length	FW2-NT
HARRISONS BROOK (Bernards) - Entire length	FW2-TP(C1)
HAVEMEYER BROOK (Mahwah) - Entire length	FW2-TP(C1)
HEWITT BROOK (W. Milford) - Entire length	1112 11 (01)
HIBERNIA BROOK	FW2-TM
(Hibernia) - Entire length, except tributary	raz-m
described separately below	EM2-MD (C1 )
(Rockaway) - Entire length of tributary at	FW2-TP(C1)
Rockaway	mr.c. mp.(01)
HIGH MOUNTAIN BROOK (Ringwood) - Source to, but	FW2-TP(C1)
not including, Skyline Lake	
HOHOKUS BROOK (Hohokus) - Entire length	FW2-NT/SE2
HUDSON RIVER	
(Rockleigh) - River and saline portions of	SE1
New Jersey tributaries from the New	•
Jersey-New York boundary line in the	
north to its confluence with the Harlem	•
River, New York	
(Englewood Cliffs) - River and saline	SE2
portions of New Jersey tributaries from	
the confluence with the Harlem River,	
New York to a north-south line	
connecting Constable Hook (Bayonne) to	•
St. George (Staten Island, New York)	•
TRIBUTARIES	FW2-NT
(Rockleigh) - Freshwater portions of	Luc_nt
tributaries to the Hudson River in New	
Jersey	nuo mi
INDIAN GROVE BROOK (Somersetin) - Entire length	FW2-TM
INDIAN CROTH LITTER AND A CONTRACT OF THE CONT	

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ATTACHMENT II

# STATE AND FEDERAL THREATENED AND ENDANGERED SPECIES, BY QUAD

List provided by Computerized Fish and Wildlife Information System New Jersey Division of Fish, Game and Wildlife

	11 1990	
CODE	QUAD	
	QOND	SPECIES
049	Tranquility	Trout, brook
	· -	Salamander, longtail
. • · · • · · · · · · · · · · · · · · · ·	·	Turtle, bog
	•	Owl homes
		Owl, barred
		Bobolink
		Sparrow, Savannah
051	Stanhope	Sparrow, vesper
•		Turtle, bog
		Turtle, wood
		Hawk, Cooper's
053	Dover	Owl, barred
_	20161	Trout, brook
İ		Rattlesnake, timber
		Turtle, bog
		Turtle, wood
055	Doort	Owl, barred
000	Boonton	Rattlesnake, timber
•		Turtle, bog
-		Turtle, wood
		Bittern, American
l	•	Goshawk, northern
		Hawk, Cooper's
<b>A</b>		Hawk, red-shouldered
•	•	Eagle, bald
,		Osprey
_		Owl, barred
		Woodpecker, red-headed
		Bobolink
		Sparrow, grasshopper
057	Pompton Plains	Salamander, blue-spotted
	•	Rattlesnake, timber
	.0	Turtle, wood
· I		Bittern, American
ŀ	·	Owl, barred
, ,		Wren, sedge
059	Paterson	Trout, brook
	·	Turtle, bog
		Turtle, wood
061	Hackensack	Turtle, bog
		Sandpiper, upland
063	Yonkers	Trout, brook
		Turtle, bog
_	•	Turtle, wood
•		Bittern, American
		Hawk, Cooper's
	•	Moodbook and passes
065	Bangor	Woodpecker, red-headed
		Shad, American
1		Woodpecker, red-headed
•		Sparrow, Savannah
	•	Sparrow, vesper

		•
081	Orange	Turtle, wood
		Grebe, pied-billed
	•	Night-heron, yellow-crowned
•		Bittern, American
		Hawk, Cooper's
-1		Sparrow, Savannah
083	Weehawken	Grebe, pied-billed
		Night-heron, yellow-crowned
		Bittern, American
Ì		Harrier, northern
		Tern, least
		Wren, sedge
		Sparrow, grasshopper
085	Central Park	opalion, draosnopper
087	Easton	Shad, American
		Trout, brook
		Turtle, wood
		Bobolink
		Sparrow, Savannah
		Sparrow, grasshopper
	·	Sparrow, vesper
089	Bloomsbury	Trout, brook
	<del>-</del>	Salamander, longtail
		Rattlesnake, timber
		Turtle, bog
		Turtle, wood
		Hawk, Cooper's
	·	Owl, barred
•		Woodpecker, red-headed
•	4	Sparrow, Savannah
		Sparrow, vesper
091	High Bridge	Trout, brook
		Turtle, bog
	·	Turtle, wood
		Bittern, American
		Bobolink
093	Califon	Trout, brook
		Turtle, wood
•		Bobolink
		Sparrow, Savannah
	•	Sparrow, grasshopper
095	Gladstone	Trout, brook
		Salamander, longtail
		Turtle, wood
	orderin serging from the control of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of the serging of	Sandpiper, upland
•		Owl, barred
		Bobolink
*		Sparrow, Savannah
		Sparrow, grasshopper
7		Sparrow, vesper
	•	

Common Name: Turtle, bog

Scientific Name: Clemmys muhlenbergii

#### NJ. HABITAT

Freshwater marsh

Bog/swamp

#### LAND.USE

Agricultural Land

Cropland and Pasture

Rangeland

Shrub and Brush Rangeland

Mixed Rangeland

Water

Streams and Canals

Wetland

#### COMMENTS ON HABITAT ASSOCIATIONS

In Pennsylvania, Bog Turtles found primarily in sphagnum bogs or wet sedge meadows in or near slow moving streams with a muddy bottom, above 610 meter elevation. The highest populations occur in shrub stage of forest succession. *3073*

In Maryland, Bog Turtles were associated with spring-fed pockets of shallow water, a bottom substrate of soft mud and rock, dominant vegetation of low grasses and sedges, and interspersed wet and dry pockets. Turtles were never encountered beyond the wet meadow transitional edge. This habitat wa used for all activities, including mating, foraging, egg-laying, basking, resting, and over-wintering. *17*

Common Name: Bittern, American

Scientific Name: Botaurus lentiginosus

NJ. HABITAT

Freshwater marsh

Saltwater marsh

Agricultural

#### LAND. USE

Wetland

Nonforested Wetland

Bays and Estuaries

Reservoirs

Lakes

Streams and Canals

Water

Herbaceous Rangeland

Rangeland

Agricultural Land

Cropland and Pasture

# COMMENTS ON HABITAT ASSOCIATIONS

Typically found breeding in wet areas such as marshes, swamps and bogs with emergent vegetation. May also breed in wet or (rarely) dry meadows, pastures, fields *606*. Preferred herbaceous species include cattails (Typha), bulrush (Scirpus), wild rice, and sedges (Cyperceae) *606,432*. American Bitterns also use shrub-swamps; shrub species include willow, alder and buttonwood *03*.

Bent *432* quotes a source reporting regular nesting on the New Jersey coast, in the salt marshes from Cape May to Ocean County. Bull *06* stated that it was relatively rare as a breeder in brackish and salt marshes, compared to fresh marshes. It is found more frequently in migration in the salt marshes, and occasionally winters there *06*.

In a study of marsh birds at Horicon NWR in Wisconsin, Manci and Rusch *02* heard American Bitterns only in shallow water cattail and dry cattail; other habitats available were deep-water cattail, river bulrush, and sedge.

Common Name: Harrier, northern Scientific Name: Circus cyaneus

#### NJ. HABITAT

Saltwater marsh

Freshwater marsh

Bog/swamp

Agricultural

#### LAND. USE

Herbaceous Rangeland

Shrub and Brush Rangeland

Agricultural Land

Cropland and Pasture

Rangeland

Mixed Rangeland

Wetland

Nonforested Wetland

Other Agricultural Land

Bays and Estuaries

## COMMENTS ON HABITAT ASSOCIATIONS

Harriers inhabit non-forested land for nesting and foraging--marshes, prairies and grasslands *434,449,12*.y

Grebe nest sites was 35.5 cm; mean distance from shore of 25 nests was 5.3 m 2.4; mean distance from open water was 1.3m+-.9 m. Grebes nested in bulrush (Scirpus spp.), cattail (Typha latifolia), and whitetop (Scholochloa festucacea). Sealy, 1978 *07*

In a study of grebe species use of varying pond sizes and types in North Dakota, Faaborg, 1976 *06* found that Pied-billed Grebes occupied the widest variety of pond types (compared with Horned, P. auritis, and Eared, P. nigricollis, Grebes), but was always associated with heavy emergent vegetation; he suggested that the Pied-billed Grebe's distinct vocalization made it best adapted of the three to defend its territory in low visibility habitat.

Glover *1055* noted that in Iowa Pied-billed Grebes used a wide variety of plants for nesting cover and that there was also wide variation in density of nesting cover; statistical analysis showed no relationship between nesting cover density and nesting success. Glover also found that successful nests were found in deeper water than unsuccessful nests; nests were found in water from 1-50" (2.54-127 cm), mean depth for successful nests was 24.2" (61.5 cm) and mean depth for unsuccessful nests was 16.4" (41.7 cm) *1055*.

Chabrech *1057* found an unusual concentration of nesting Pied-billed Grebes on a brackish impoundment in Louisiana. The impoundment was 200 acres, 75% open water, vegetated mostly with Spartina patens surrounding the open water, and filled with a very dense submerged growth of wigeongrass, which furnished nest material. The depth of the open parts of the impoundment averaged 18", in the wiregrass it ranged from 8-12". Salinity was from 4300 to 6400 ppm.

Common Name: Grebe, pied-billed

Scientific Name: Podilymbus podiceps

NJ.HABITAT

Saltwater marsh

Freshwater marsh

LAND.USE

Wetland

Nonforested Wetland

Water

Lakes

Bays and Estuaries

Reservoirs

Streams and Canals

Atlantic Ocean Coastal Waters

#### COMMENTS ON HABITAT ASSOCIATIONS

Pied-billed Grebes are generally found breeding in marshes, ponds, lakes and sluggish streams with well-developed emergent vegetation. In winter the species may be found on fresh, brackish or salt water *04,10*:

Forbes, Barkhouse and Smith, 1989 *08* found that physical features were more important than species of vegetation in nest site selection of Pied-billed Grebes. At a permanent freshwater marsh in Nova Scotia, they found grebes nesting in emergent vegetation species (Typha spp, Sparganium eurycarpum, Scirpus validus, and Phragmites australis) in proportion to each species' availability. Compared to random points in the marsh, nest sites were characterized by sparser coverage of water by emergent vegetation (mean = 45%, random mean = 68.3; grebes avoided areas with >80% coverage, and avoided nesting in dense vegetation unless it was over deep water.); deeper water (mean = 45.2 cm, random mean = 39.1 cm.); closer proximity to open water (mean = 4.15 m, random mean = 6.67 m); and greater distance from shore (mean = 76.8 m, random mean = 54.3 m.) All differences were significant with P = .05 or less. Grebes avoided nesting on edges of emergent vegetation exposed to wave action. The authors noted that "fragmented" habitat or habitat "complexity", i.e. stands of emergent vegetation separated by broad channels of open water, likely provides sheltered bays and inlets which may protect nests from inclement weather; they found aggregations of grebes nesting in such areas.

In prairie potholes in Manitoba, mean water depth at 31 Pied-billed

## COMMENTS ON HABITAT ASSOCIATIONS

A study of nest-site characteristics of Yellow-crowned Night-herons along the Chesapeake Bay in Virginia found that the herons are exceptionally tolerant of humans, with 87% of 257 nesting attempts in 2 years occurring on privately owned lots with occupied homes. Over 95% of the nests were in Loblolly Pines. Habitat characteristics were:

·	n	mean	SD ·	range
Tree density (trees/ha)	65	305.0	100.1	140-479
Pine density (trees/ha)	65	202.0	96.7	25-404
Canopy closure (%)	65	62.8	15.0	40-90
Subcanopy cover (%)	65	26.3	17.7	10-80
Shrub cover (%)	65	21.5	19.9	0-90
Distance to water (m)	65	307.0	329.9	20-1100

Factor analysis defined four components describing nest sites: tree structure, stand density, nest position, and understory openness. *502*

Common Name: Night-heron, yellow-crowned Scientific Name: Nyctanassa violaceus

#### NJ. HABITAT

Saltwater marsh

Freshwater marsh

Deciduous Forest

Mixed Forest

#### LAND.USE

Forested Wetland

Forest Land

Deciduous Forest Land

Mixed Forest Land

Water

Streams and Canals

Lakes

Reservoirs

Bays and Estuaries

Wetland

Nonforested Wetland

Common Name: Sandpiper, upland

Scientific Name: Batramia longicauda

#### NJ. HABITAT

Agricultural

Old field

#### LAND.USE

Cropland and Pasture

Agricultural Land

Other Agricultural Land

Rangeland

Herbaceous Rangeland

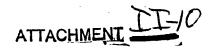
Mixed Rangeland

## COMMENTS ON HABITAT ASSOCIATIONS

In general, breeds in pastures, dry upland fields, hay meadows, cultivated fields and other extensive flat open country *528,676,432*. It sometimes occurs in fields around airports and on golf courses *528*. Upland Sandpipers are seldom found near water, but occasionally in moist meadows *432*. Clark *NJDFGW2* noted that Upland Sandpipers have nested in scrub-shrub areas adjacent to grassland areas at the FAA Tech Center in New Jersey.

# PERCENTAGE OF UPLAND SANDPIPER NESTS IN SPECIFIC LAND USE TYPES***

(adapted from White.*02*)	
Pasture	38.2%
grazed	12.1
ungrazed	2.2
burned	21.0
unburned	2.9
Prairie-grassland	28.0
Idle Land (suburban	
fringe, stubble fields	
and highway right-of ways)	16.0
Hayfields	7.0
Clearings in woody growth	5.4
Tilled lands, growing grain	3.1
Airfields, shooting ranges	1.8
Marsh	0.5



Common Name: Sparrow, grasshopper

Scientific Name: Ammodramus savannarum

#### NJ. HABITAT

Agricultural

Old field

#### LAND.USE

Agricultural Land

Cropland and Pasture

Rangeland

Herbaceous Rangeland

# COMMENTS ON HABITAT ASSOCIATIONS

Fields with more than 35% shrub cover are avoided. Bunch grasses are preferred over sod. *4494,4497* Bare ground is important for nesting and foraging *505*. Optimum cover for reclaimed surface mines in West Virginia included 73% litter, 24% bare ground, and 28% grass *503*.

Common Name: Tern, least

Scientific Name: Sterna antillarum

#### NJ. HABITAT

Dune

Saltwater marsh

#### LAND. USE

Barren Land

Beaches

Sandy Areas other than Beaches

Water

Bays and Estuaries

Atlantic Ocean Coastal Waters

Wetland

Nonforested Wetland

## COMMENTS ON HABITAT ASSOCIATIONS

Nesting localities are usually broad, flat open sand beaches, entirely devoid of vegetation; does not require islands of isolated places like most other terms *1500*.

Another source: favors pebbles or shells on sand with short, sparse vegetation for colony sites *04*.

Least Tern nesting sites in New Jersey were characterized by low height and cover of vegetation, the presence of shells and shell fragments in a sandy substrate, and protection from human disturbance. Terns also used dredge spoil sites in New Jersey, which in general had coarser substrate particles and were farther from the water than beach sites. Colonies on dredge spoil sites were smaller and had greater colony turnover rates *11*.

Common Name: Wren, sedge

Scientific Name: Cistothorus platensis

#### NJ. HABITAT

Saltwater marsh

Freshwater marsh

#### LAND.USE

Wetland

Nonforested Wetland

## COMMENTS ON HABITAT ASSOCIATIONS

Sedge Wrens breed in sedge meadows, shallow sedge marshes with scattered shrubs and little or no standing water, coastal brackish marshes with scattered low shrubs and herbs *11,12*.



# NATURAL LANDS MANAGEMENT

NATURAL HERITAGE

PRIORITY SITE MAPS

The Priority Site Maps identify boundaries of some of the most important sites in the State for endangered and threatened plants, animals and ecosystems. These maps do not contain all of the important areas in the State for endangered biological diversity. They only depict the boundaries of priority sites which have been delineated by the Office of Natural Lands Management to date. These areas should be considered to be top priorities for the preservation of biological diversity. If these areas are allowed to be degraded or destroyed, we may lose some of the most unique components of our natural heritage.



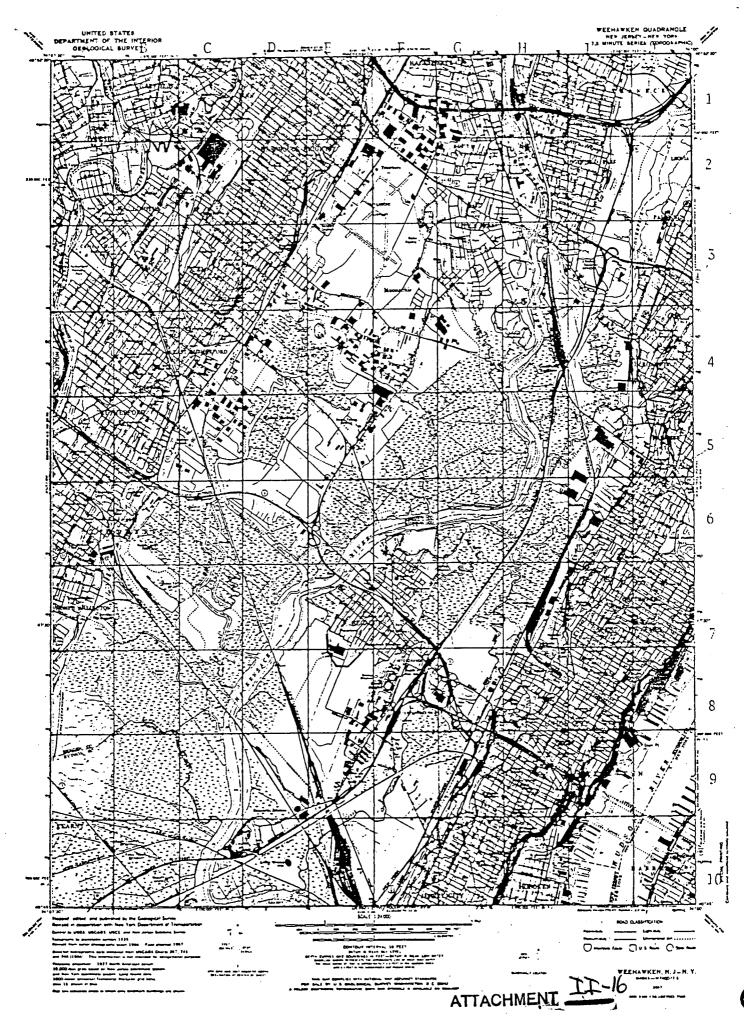
# NATURAL LANDS MANAGEMENT

#### NATURAL HERITAGE INDEX MAPS

The Natural Heritage Database contains several thousand records of individual occurrences of endangered and threatened species and ecosystems. Many of these occurrences either have not been documented in recent years or have not had habitat boundaries Because much work remains to be done to delineate delineated. habitat boundaries and determine current status for these occurrences, Natural Heritage Index Maps were devised to red flag general areas in which the occurrences are located. The index maps are meant to be used as a tool to point to areas which may be of significance for endangered biological diversity. maps do not depict all endangered species habitat in the State, but merely general areas which contain documented occurrences. additional areas may contain unidentified or poorly documented occurrences.

The maps have been produced using a computer generated grid which shades a grid cell approximately 330 acres in size if an endangered or threatened species or ecosystem has been documented anywhere within the cell. To use these maps, we suggest that you first find the location to be checked on the quad maps and then refer to the same grid location of the Natural Heritage Index Maps. The Natural Heritage Program can be contacted for additional information as specific projects are planned.





#### NATURAL HERITAGE DATA

DOCUMENTED LOCATION

GENERALIZED LOCATIONS FOR RARE & ENDANGERED ELEMENTS OF NATURAL DIVERSITY

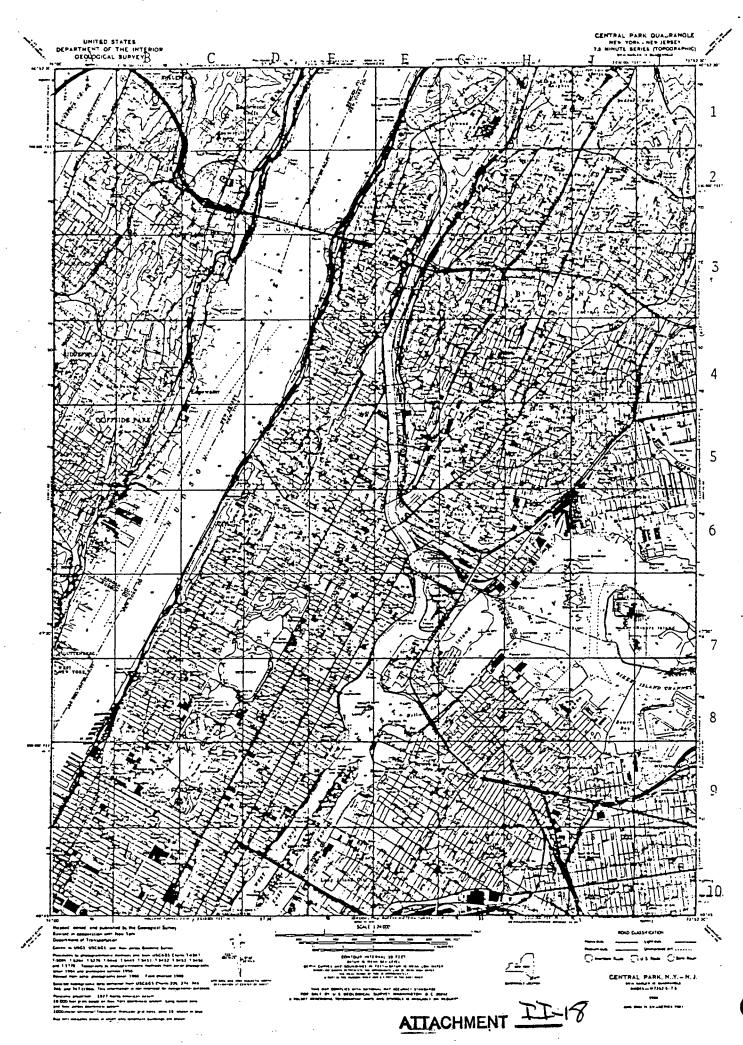
KNOWN WITHIN 1.5 MI. KNOWN PRECISELY G Н D 2 3 4 5 6 8 9 10

NOTE: THIS IS NOT A COMPLETE MAP OF RARE AND INDANGERED SPECIES MADITAT FOR THIS AREA. IT REFLECTS DATA ON KNOWN OCCUMBENCES COMPILED AS OF THE ABOVE DATE. IT INCLUDES BOTH HISTORICALLY AND RECENTLY DOCUMENTED OCCUMBENCES. ADDITIONAL OCCUMBENCES MAY BE FOUND ON UNGURVEYED MADITAT. FOR MORE INFORMATION, CONTACT THE OFFICE OF NATURAL LANDS MANAGEMENT, CN404, TRENTON NJ. 08425.

MAY 1988

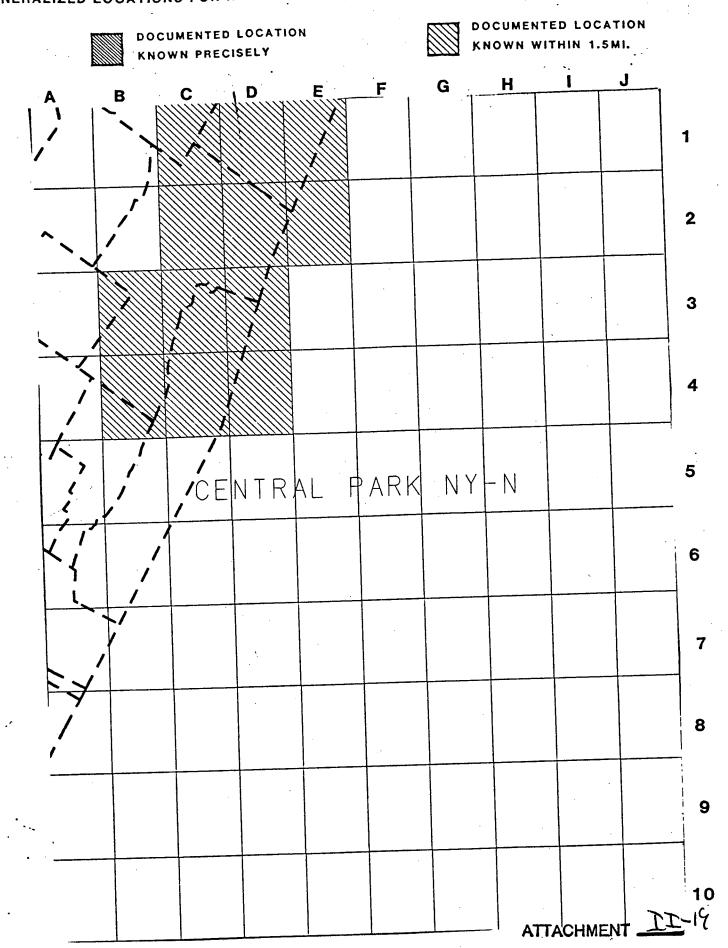
DOCUMENTED LOCATION

. UPDATED SEMIANNUALLY



## NATURAL HERITAGE DATA

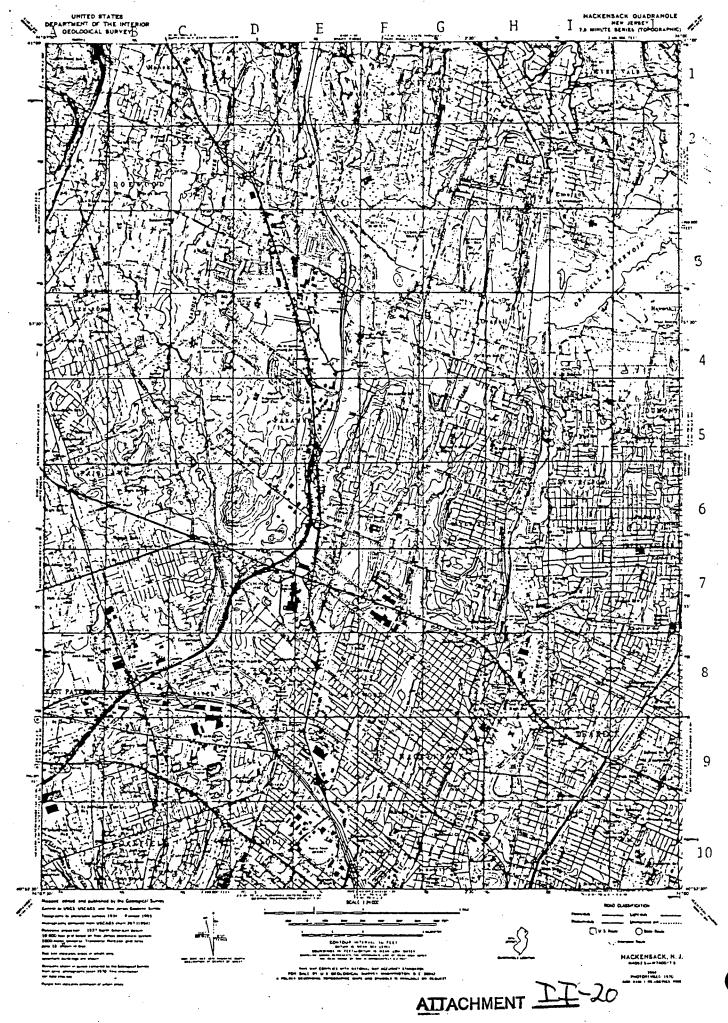
SENERALIZED LOCATIONS FOR RARE & ENDANGERED ELEMENTS OF NATURAL DIVERSITY



NOTE: THIS IS NOT A COMPLETE MAP OF RARE AND ENDANGERED SPECIES RABITAT FOR THIS AREA. IT REFLECTS DATA ON KNOWN OCCURRENCES COMPILED AS OF THE ABOVE DATE. IT INCLUDES BOTH HISTORICALLY AND RECENTLY DOCUMENTED OCCURRENCES. ADDITIONAL OCCURRENCES RAY BE FOUND ON UNSURVEYED MABITAT. FOR MORE THAN THE OFFICE OF NATURAL LANDS MANAGEMENT, CONTACT THE OFFICE OF NATURAL LANDS MANAGEMENT, CN404, TRENTON

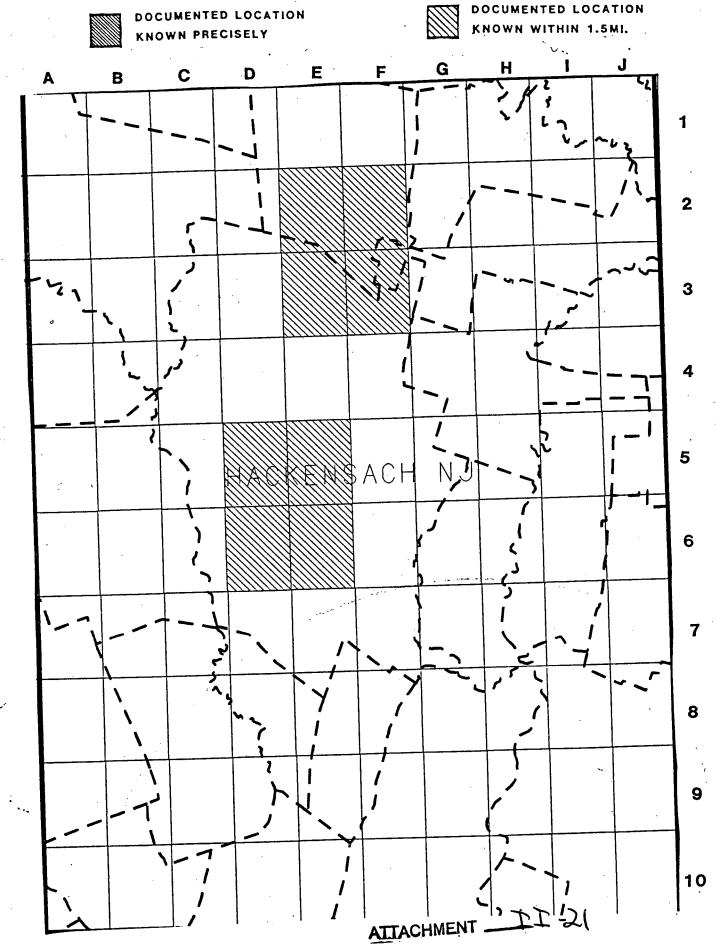
MAY 1988

UPDATED SEMIANNUALLY



### NATURAL HERITAGE DATA

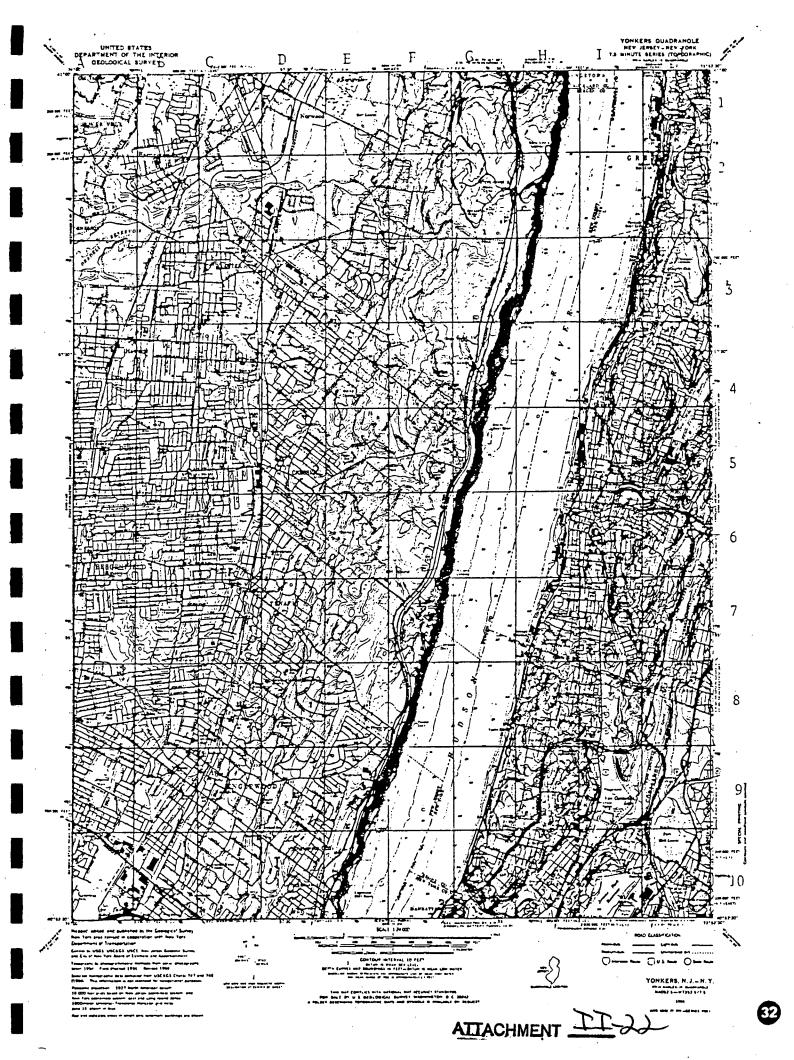
GENERALIZED LOCATIONS FOR RARE & ENDANGERED ELEMENTS OF NATURAL DIVERSITY



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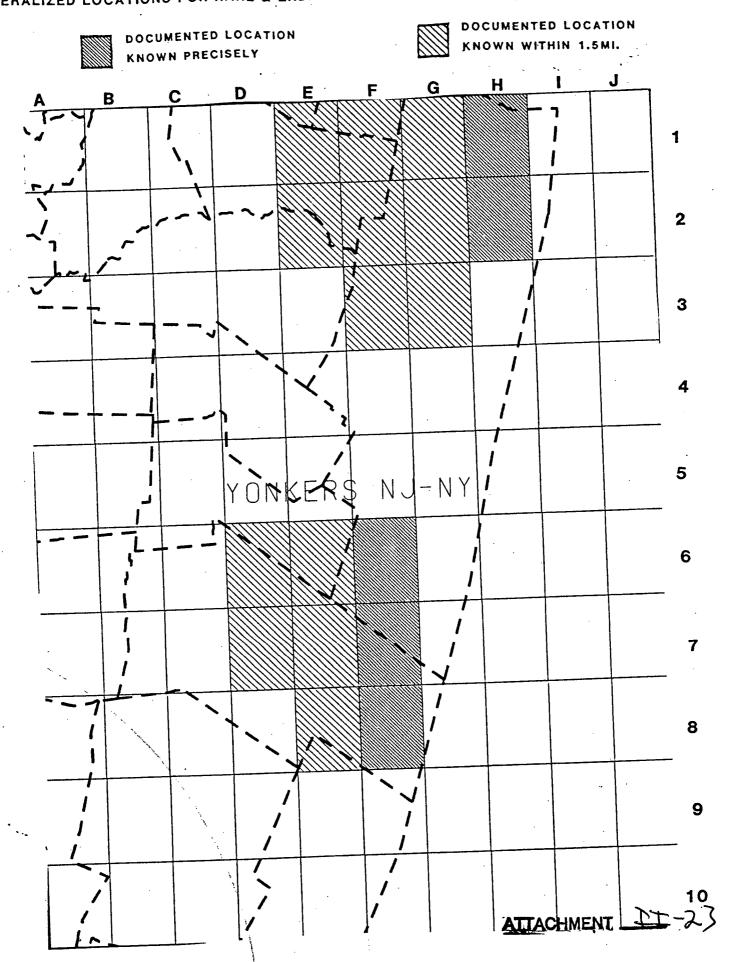
**MAY 1988** 

UPDATED SEMIANNUALLY



## NATURAL HERITAGE DATA

GENERALIZED LOCATIONS FOR RARE & ENDANGERED ELEMENTS OF NATURAL DIVERSITY



NOTE: THIS IS NOT A COMPLETE MAP OF BARE AND ENDANGERED SPECIES MABITAT FOR THIS AREA. IT REFLECTS DATA ON KNOWN OCCURRENCES COMPILED AS OF THE ABOVE DATE. IT INCLUDES BOTK MISTORICALLY AND RECENTLY DOCUMENTED OCCURRENCES. ADDITIONAL OCCURRENCES MAY BE FOUND ON UNSURVEYED MABITAT. FOR MORE ADDITIONAL OCCURRENCES MAY BE FOUND ON UNSURVEYED MABITAT.

**MAY 1988** 

UPDATED SEMIANNUALLY

ATTACHMENT JJ



ES-91/52

# United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

Fish and Wildlife Enhancement 927 North Main Street (Bldg. D1) Pleasantville, New Jersey 08232

> Tel: 609-646-9310 FAX: 609-646-0352

> > February 12, 1991

Kathy A. Campbell NUS Corporation 1090 King Georges Post Road Suite 1103 Edison, New Jersey 08837

Dear Ms. Campbell:

This letter is in response to your January 11, 1991, request to the Fish and Wildlife Service (Service) for information on the presence of federally listed and proposed endangered and threatened species within the study area of the proposed hazardous waste site in Hackensack, Bergen County, New Jersey.

This response is provided pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) to ensure the protection of endangered and threatened species and is intended to assist your assessments, investigations, and planning being conducted pursuant to Section 104(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. 9601 et seq.) (Superfund Amendments and Reauthorization Act). These comments do not represent any position the U.S. Department of the Interior may adopt concerning possible injury to natural resources under the Department's trusteeship.

The endangered shortnose sturgeon (<u>Acipenser brevirostrum</u>) has been documented from the Hackensack River. The National Marine Fisheries Service maintains jurisdiction over this and most other marine species and should be contacted at the following address regarding potential impacts to this species as a result of project implementation:

National Marine Fisheries Service Sandy Hook Marine Laboratory Highlands, New Jersey 07732 (201/872-0200)

Except for occasional transient species, no other federally listed or proposed threatened or endangered flora or fauna are known to exist within the study area. Enclosed is a summary of federally listed and candidate species in New Jersey. Candidate species are those species under consideration by the Service for possible inclusion on the List of Endangered and Threatened Wildlife and Plants. Although these species receive no substantive or procedural protection under the Endangered Species Act, the Service encourages federal agencies and other planners to consider candidate species in the project planning process. The New Jersey Natural Heritage Program provides the most up-to-date data source for candidate species in the State, as well as

maintaining information on State listed species, and may be contacted at the following address:

Mr. Thomas Breden
Natural Heritage Program
Division of Parks and Forestry
CN 404
Trenton, New Jersey 08625
(609/984-0097)

Should the Natural Heritage Program data search reveal the presence of any candidate species on the site, the Service should be contacted to ensure that these species are not adversely affected by project activities.

Further information on State listed species may be obtained from the following office:

Ms. JoAnn Frier-Murza Endangered and Nongame Species Program Division of Fish, Game and Wildlife CN 400 Trenton, New Jersey 08625 (609/292-9101

In regard to potential wetland impacts, we have reviewed the Service's National Wetlands Inventory map for the Weehawken, New Jersey-New York Quadrangle, which shows wetlands adjacent to the project area. The specific extent of these wetlands can only be determined by on-site inspection. Emergent wetlands provide habitat for a variety of migratory and resident species of fish and wildlife. Thus, the Service discourages activities in and affecting the Nation's wetlands that would unnecessarily damage, degrade or destroy these habitat values. Without detailed project information, we are unable to provide a more extensive review of the project proposal at this time. Project activities in wetlands may require federal and State permits from the U.S. Army Corps of Engineers pursuant to the Clean Water Act (33 U.S.C. 1344 et seq.) and the New Jersey Department of Environmental Protection pursuant to the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et seq.). The Department of Environmental Protection, through the Freshwater Wetlands Protection Act, can provide a letter of interpretation that determines if wetlands are present on the site or verifies the delineation of a wetland boundary line. Thus, if work is proposed in wetlands, the following offices should be contacted to determine permit compliance:

> Regulatory Branch U.S. Army Corps of Engineers New York District 26 Federal Plaza New York, New York 10278-0090 (212/264-9053)

Division of Coastal Resources
Department of Environmental Protection
CN 401
Trenton, New Jersey 08625-0401
(609/984-0853)

Information contained in this letter and additional information obtained from the aforementioned sources represents the public interest for fish and wildlife resources and should warrant full consideration in the project planning process. The Service requests that no part of this letter be taken out of context and if reproduced, the letter should appear in its entirety.

Please contact Dana Peters of my staff if you have any questions or require further assistance regarding threatened or endangered species.

Sincerely,

John C. Staples Acting Supervisor

Enclosures

ATTACHMENT KK



#### State of New Jersey **Department of Environmental Protection and Energy**

Division of Publicly Funded Site Remediation CN 413 Trenton, NJ 08625-0413

Tel. # 609-984-2902 Fax. # 609-633-2360

Jeanne M. Fox Acting Commissioner Anthony J. Farro Director

**MEMO** 

TO: LANCIA OIL FILE

FROM: ANDREW CYR, HSMS III OFFICE OF SITE ASSESSMENT SUBJECT: GEMS POPULATION DATA WITHIN 4.0 MILES OF LANCIA OIL- 340

SOUTH RIVER STREET HACKENSACK, NJ

ON MARCH 16 THE GEMS DATA BASE WAS ACCESSED AND THE 1990 CENSUS POPULATION WAS OBTAINED WITHIN 4.0 MILES OF THE SITE. POPULATION FOR THE SIX DISTANCE RINGS ARE AS FOLLOWS;

DISTANCE MILES		POPULATION
$0 - \frac{1}{4}$ $\frac{1}{4} - \frac{1}{2}$ $\frac{1}{2} - 1$ $1 - 2$ $2 - 3$ $3 - 4$		2,996 4,585 15,261 53,572 98,135 137,873
	ጥ∩ጥል⊺.	312.422

ATTACHMENT LL

**INTERIM** 

# **SOIL SURVEY**

**OF** 

# BERGEN COUNTY

**NEW JERSEY** 

A PRELIMINARY REPORT FOR THE



**JULY 1990** 

UNITED STATES DEPARTMENT
OF AGRICULTURE
SOIL CONSERVATION SERVICE
ADVANCED UNEDITED COPY

ATTACHMENT LL-

**PRICE \$20.00** 

Map	Publication	Page No.
Symbol*	Symbol Symbol	
Tm	Su - Sulfaquents and Sulfihemists, frequently flooded	115
Ua	Ua - Udorthents, loamy	117
Ub	Ub - Udorthents, organic substratum	118
Uc	Uc - Udorthents, organic substratum - Urban land complex	119
Ud	Ud - Udorthents, refuse substratum	120
Ve	Ue - Udorthents, wet substratum	121
Uf	Uf - Udorthents, wet substratum - Urban land complex	122
Ur	Ur - Urban land	123
BoBN	WeB - Wethersfield gravelly loam, 3 to 8 percent slopes	124
BoCN	WeC - Wethersfield gravelly loam, 8 to 15 percent slopes	125
BoDN	WeD - Wethersfield gravelly loam, 15 to 25 percent slopes	126
BoEN, BoFN	WeE - Wethersfield gravelly loam, 25 to 35 percent slopes	127
BrDN	WrD - Wethersfield gravelly loam, 15 to 25 % slopes, very stony .	128
BsBN.HzBN.HyBN	WsB - Wethersfield - Rock outcrop complex, 3 to 8 percent slopes.	129
BsCN, HzCN, HyCN	WsC - Wethersfield - Rock outcrop complex, 8 to 15 percent slopes.	130
BsDN, HzDN, HyDN	WsD - Wethersfield - Rock outcrop complex, 15 to 25 percent slopes	131
BsEN, BsFN, HzFN, HzEN	WsE - Wethersfield - Rock outcrop complex, very stony	132
BuBN, RuBN, HwBN	WuB - Wethersfield - Urban land complex, undulating	133
BuCN, RuCN, HwCN	WuC - Wethersfield - Urban land complex, gently rolling	134
BuDN, RuDN, HwDN	WuD - Wethersfield - Urban land complex, hilly	135

Soil map sheets may contain outdated map symbols. Refer to the publication symbol when identifying soils.

UR Urban land

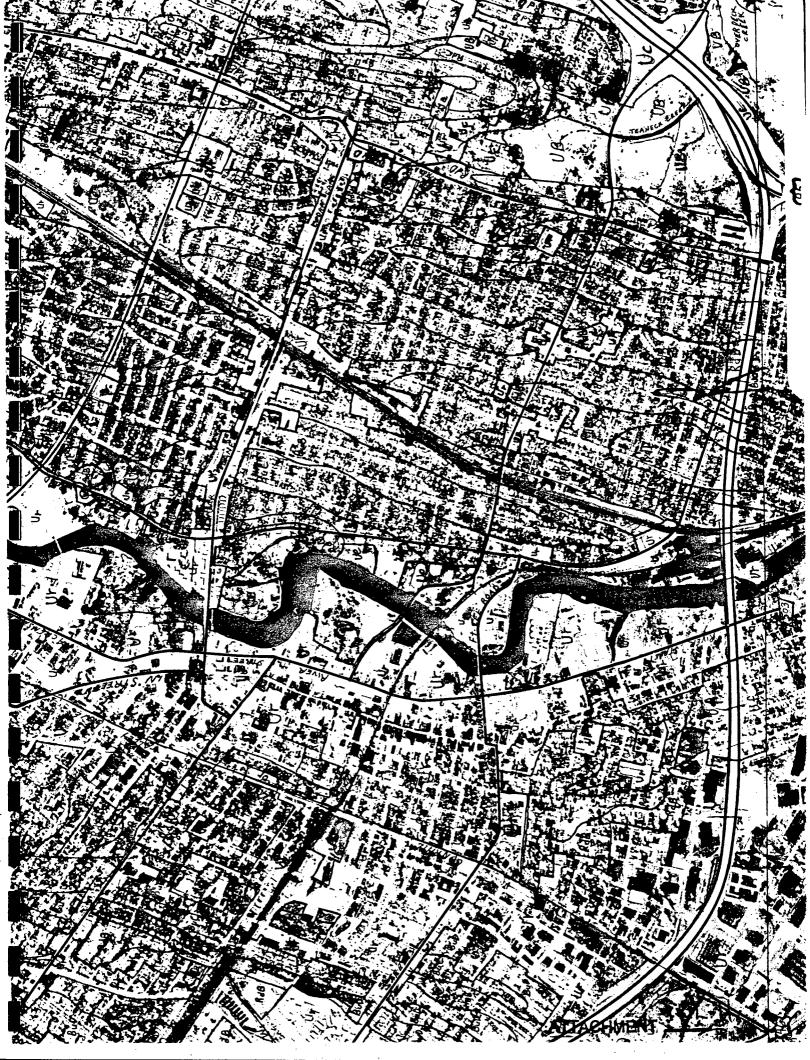
This unit is nearly level or gently sloping. It occurs throughout the survey area except in the boro of Alpine and west of the Mahwah River in the boros of Mawah and Oakland. Individual areas are irregular in shape and range from 5 to more than 750 acres in size. Slopes range from 1 to 5 percent.

This unit has been cut or filled and covered with an impervious surface such as paving materials or buildings over 85 percent of the areas.

Included in mapping are high density residential areas that are less than 85 percent covered and contain reworked soil material or Udorthents. In the Meadowlands area, the soils are either Udorthents, loamy or Udorthents, wet substratum. Included areas make up about 25 percent of the unit.

This unit is used for commercial and industrial development such as shopping malls and office building complexes. Some areas are utilized for central school sites.

Capability subclass is not assigned.



ATTACHMENT MM

# CITY OF HACKENSACK, N.J.

WEATHER COI	ADITIONS		FIRE	REPORT	•	
C RAIN-SNOW	V-ICE				Alaı	m No
FOG OTHER			•	Da	ate $2-2$	E-517
Report of	NSINE 1		4114 304			
port of		-corecin	1114 304		(AZ 311	
Out 1207	Signal	Origin:	Description	of Building	1	
In 125	Station			-	How Occupied	Other than Building
Total Time	Tele.		Stories	☐ Frame	☐ Dwelling	☐ Automobile
Out: for profess	Radio		Type of Roof:	☐ Brick☐ Stucco	☐ Apartment	☐ Grass
Detectorが近さ	Verbal		,	☐ Cinder Block	☐ Store	☐ Rubbish
Activated				☐ Other	□ Offices	□ Dump
Not	1 0.100				☐ Garage ☐ Factory	☑ Other
Activated			Ordered By:		□ Other	Oic Pump
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sured With		Address
Name of Occupants	Basement	Insured with
		Insurance on Contents
		Insurance Loss on Contents
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WEIGH DIE	Floor	Insurance on Contents
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	Floor	Insurance on Contents
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ATTACHMENT NN



205 STATE STREET HACKENSACK, N. J. 07601 201-487-1002

DATE 11-5-80

CERTIFIED MAIL NO. P30 9072550 RETURN RECEIPT REQUESTED

#### BUREAU OF FIRE PREVENTION

# NOTICE OF HAZARDOUS CONDITION

Premises	340 So. River Street	
To:	Lancia Oil Company 340 So. River St. Hackensack, NJ 07601	Occupant Owner Contractor

You are hereby notified that an inspection has been made by this department of the above named premises, and that conditions were found to exist in violation of the Fire Prevention Code of the City of Hackensack, N. J.

### PLEASE CORRECT AS FOLLOWS:

- 061. Install fire extinguishers on loading platform.
- 66-2. Remove 275 gallon fuel oil tank that feeds furnace.
- 663. Fire Extinguishers in garage area must be hung on wall.

### SECOND AND FINAL NOTICE

ATTACHMENT PO-

You are herewith notified to have this condition(s) corrected within.....14.......days on receipt of this notice. Failure to comply with the foregoing will render you liable to the penalties as provided in the Fire Prevention Code of the City of Hackensack, N. J. and a Summons will be issued for your appearance in Court.

Fire Fighter Salvatore DiStasi

For Anthony A. Aiellos, Chief

FIRE CHIEF

SD:ND

# RONALD E. FREEMAN ANNIXONAX XXX XXXIEXXXXXX FIRE CHIEF



205 STATE STREET HACKENSACK, N. J. 07601 201248231602 646-7806

SIGNED_

LICENSE APPLICATION	DEPT.	LICENSE NO.
ISSUED	BUREAU OF FIRE PREVENTION	EXPIRES NOV 1'5 1991
The undersigned hereby makes or sell materials indicated below, an	s application as prescribed in Ordinand ad agrees to comply with all conditions	ee #961 to store, use, manufacture s imposed by said Ordinance.
Lancia Oil Co. Inc.	Langia Oi	1 Company Inc.
Owner of Property	Phone Name of Applicant or	Business
340 S. River St. Hacke		
<u> Hugo Lancia, President</u>	Address of Licensed Pre	emises
Owner of Business	791-0686 / 342-5454 Phone Phone	
160 E. Railway Ave. Pater	sch, NJ / / / / / / / / / / / / / / / / / /	- Trucca
Emergency Number	Signature of Owner or	Agent
Ordinance No. 961 S	ection Nos. 12	
Material  1. Bulk fuel oil stora	Quantity 1 - 10,000 barrel	Stored AGT
2. Bulk fuel oil store		AGT
3. Welding equipment	1 unit	
4. Kerosene	1 - 15,000 gallon	AGT
5. Diesel	1 - 2,000 gallon	UGT
6. \ /	<del>/</del>	001
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12.		
· / WI	ASE RETURN APPLICATION SIGNE TH REQUIRED FEE. MAKE CHECK ABLE TO THE CITY OF HACKENSA	
. /	- NY Manufactures	ATTACHMENT NO
hemarks File Insulance	- NI Manuractures	
Violation of above agreement will be punished as provided in City	vill result in immediate cancellation of Ordinance.	f permit or license and offenders
Inspection made by	nell -	FEE\$ 480.00
Approved by	U	ISSUED MOV 4 5
Fire Official	al	ISSUED
		CHECK #

ATTACHMENT  $\infty$ 

PREMISES: 340 Million ST DATE TYPE OF VIOLATIONS REMARKS INSPECTED COMPLAINT INSPECTION EXISTS - CORRECTED  $\mathbf{BY}$ SIGNED Reb LiTe rever Tim 4 Carren 10 Comme 11 11 ~ 1111 111' 961 Sec 166-18 918E 14-10 11/16/90

ATTACHMENT PP

#### MORANDUM

TO: LANCIA OIL COMPANY, INC. FILE

FROM: ANDREW CYR, HSMS III

OFFICE OF SITE ASSESSMENT

SUBJECT: PRESAMPLING ASSESSMENT (PSA)

LANCIA OIL COMPANY, INC. 340 SOUTH RIVER STREET

HACKENSACK, BERGEN COUNTY, NEW JERSEY

DATE: APRIL 27, 1994

DATE OF PSA: APRIL 27, 1994

NJDEPE REPRESENTATIVES ON SITE: ANDREW CYR ---

FRANK SORCE ---NJDEPE GARY COYLE ---

LANCIA OIL COMPANY UGO LANCIA LANCIA OIL COMPANY

ON APRIL 27, 1994 FRANK SORCE AND THE WRITER MET WITH GARY COYLE, PLANT MANAGER AND UGO LANCIA, PRESIDENT OF LANCIA OIL. THE WEATHER WAS PARTLY SUNNY AND THE TEMPERATURE WAS 75-80 DEGREES. PRIOR TO THE FACILITY INSPECTION NUDEPE REPRESENTATIVES SPOKE TO MR. LANCIA DURING THIS AND MR. COYLE ABOUT SITE OPERATIONS AND OWNERSHIP. CONVERSATION THE FOLLOWING INFORMATION WAS OBTAINED:

- LANCIA OIL'S OPERATIONS HAVE BEEN GREATLY REDUCED, THEY DO NOT CURRENTLY OWN ANY VEHICLES AND DO NOT RECEIVE ANY OIL SHIPMENTS VIA LANCIA IS CURRENTLY SUBLETTING THEIR STORAGE CAPACITY TO COASTAL OIL. THIS REDUCTION IN OPERATIONS HAS BEEN IN EFFECT FOR APPROXIMATELY 1 YEAR. DUE TO THIS FACT LANCIA OIL HAS ONLY THREE EMPLOYEES ONE FULL TIME AND TWO PART TIME.
- LANCIA OIL DID LEASE AND OPERATE ON BLOCK 28B, FROM 1968 TO 1973. THE PROPERTY WAS OWNED BY MARY PRISENDORF AND CHARLES LAW ET ALS. WHO ARE ASSOCIATED WITH EVER READY OIL COMPANY. MR. LANCIA STATED THAT EVER READY OIL OR ITS OWNERS ARE NOT ASSOCIATED WITH LANCIA OIL'S OPERATIONS. MR. LANCIA ALSO STATED THAT A BOUNDARY DISPUTE FOR LOT 22 AND LOT 12 WAS SETTLED AROUND 1987 WHEN THE PROPERTY WAS RESURVEYED AND ABOUT 10 FEET OF PROPERTY WAS

TRANSFERRED TO BOTH OWNERS. CURRENTLY LOT 22 IS USED AS A GARBAGE DUMPSTER STORAGE AREA BY CILANO (201) 342-9836.

- 3. LANCIA OIL PURCHASED LOT 12 IN THE EARLY 1970S AND SUBSEQUENTLY MOVED A LOADING RACK AND THE 400,000 GALLON FUEL OIL AGST FROM LOT 22 TO LOT 12. THE 800,000 GALLON FUEL OIL AGST WAS LATER BUILT AT ITS PRESENT LOCATION. AS STATED FUEL OIL WAS SAID TO BE NO LONGER RECEIVED VIA BARGE AND THEY HAVE NOT RECEIVED A BARGE SHIPMENT FOR APPROXIMATELY 1 YEAR. (A LETTER DATED APRIL 11, 1994 FROM LANCIA OIL TO THE US COAST GUARD STATING THIS FACT WAS OBTAINED). FUEL OIL IS RECEIVED VIA TANKER TRUCK AND TRANSPORTED BY VARIOUS COMPANIES. MR. LANCIA ALSO STATED THAT THE 400,000 GALLON FUEL OIL TANK HAS NOT BEEN USED FOR APPROXIMATELY 2 YEARS.
- 4. LANCIA OIL ALSO MAINTAINS A 15,000 GALLON KEROSENE AGST WHICH IS LOCATED WITHIN THE SOUTH WEST PORTION OF THE CONTAINMENT AREA. IN ADDITION LANCIA ALSO HAS A 2,000 GALLON DIESEL UST LOCATED ALONG THE SOUTHERN FENCE LINE. MR. LANCIA APPEARED APPREHENSIVE ABOUT DISCUSSING THE TANK BUT HE DID STATE THAT THE TANK IS NO LONGER IN USE AND THERE WERE NO OTHER USTS ON SITE. MR. COYLE STATED THAT THE AGSTS ARE CLEANED OUT ONCE EVERY 3 TO 4 YEARS. HE DID NOT INDICATE HOW OR WHERE THE RESULTING WASTES WERE DISPOSED.
- 5. LANCIA OIL OBTAINS ITS POTABLE WATER FROM THE HACKENSACK WATER COMPANY.
- 6. A NEW DPCC PLAN WAS COMPLETED BY MATRIX ENVIRONMENTAL ENGINEERING 76 ASHLAND AVE. WEST ORANGE THE NJDEPE CONTACT IS PRITT PALS.

FRANK SORCE AND THE WRITER WERE GIVEN PERMISSION TO INSPECT THE SITE AND PROCEEDED TO DO SO. NO COMPANY REPRESENTATIVE TOOK PART IN THE FACILITY INSPECTION. THE SITE IS FENCE ON THREE SIDES WITH A 6 FOOT CHAIN LINK FENCE. THE EASTERN SIDE (BOARDING THE HACKENSACK RIVER) IS NOT FENCED. THE WESTERN PORTION OF THE SITE IS COVERED WITH AGING ASPHALT WHILE THE CENTRAL PORTION OF THE SITE AROUND THE TRUCK LOADING AREA IS COVERED WITH CONCRETE. READINGS OF UP TO 50 PPM WERE OBTAINED ON AN HNU PHOTOIONIZATION DETECTOR FROM A HOLE DRIVEN INTO AN AREA OF BROKEN ASPHALT LOCATED SOUTHWEST OF THE CONTROL ROOM.

IN ADDITION TO THE TWO AGST FUEL OIL TANKS, THE KEROSENE AGST AND THE DIESEL UST THERE ARE THREE 275 GALLON HEATING OIL TANKS. ONE TANK IS LOCATED NEAR THE SOUTHEAST CORNER OF THE OFFICE BUILDING, ALONG THE SOUTHERN SIDE OF THE CONTROL BUILDING AND UNDERNEATH THE LOADING AREA. THE HEATING TANKS NEAR THE CONTROL BUILDING AND THE LOADING AREA WERE SITUATED ON CONCRETE. VISIBLE SPILLS WERE NOTED IN THE LOADING AREA.

THE PUMP FOR THE UNUSED DIESEL TANK (LABELED "UNLEAD") WAS OBSERVED AS WELL AS THE FILL PIPE FOR THE UST. LOCATED ALONG THE FENCE LINE WAS PILED FILL. THE FILL PILE EXTENDED ALONG THE FENCE LINE TO THE SOUTH. READING OF UP TO 5 PPM WERE OBTAINED FROM HOLES DRIVEN INTO THE SOIL PILE WITH A SLAMBAR.

THE SOUTHEASTERN PORTION OF THE SITE IS NOT PAVED AND IS USED AS A STORM WATER RETENTION/PERCOLATION AREA. OIL STAINS AND DEBRIS WERE NOTED IN THIS AREA. READINGS OF UP TO 50 PPM WERE OBTAINED FROM HOLES DRIVEN INTO THIS AREA. AN EARTHEN BERM OF APPROXIMATELY 3 FEET HIGH SEPARATES THE RETENTION AREA FROM THE HACKENSACK RIVER LOCATED APPROXIMATELY 20 FEET EAST. NO SHEEN WAS OBSERVED ON THE RIVER ALONG THE FACILITY PROPERTY; HOWEVER, READINGS OF UP TO 60 PPM WERE OBTAINED FROM HOLES DRIVEN INTO THE SOIL ALONG THE RIVER BANK.

THE 400,000 AND 800,000 GALLON FUEL OIL AGSTS AND THE 15,000 GALLON KEROSENE TANK ARE SURROUNDED ON THREE SIDE BY A CINDER BLOCK WALL WHICH RANGES IN HEIGHT FROM APPROXIMATELY 4 FEET TO 8 FEET. THE NORTHERN SIDE OF THE CONTAINMENT AREA IS CONSTRUCTED OF AN EARTHEN BERM. APPROXIMATELY 3 OLD 55-GALLON DRUMS WERE NOTED ALONG THE SOUTHERN WALL. THE CONTAINMENT AREA IS CONSTRUCTED OF FILL AND GRAVEL. TWO LOW AREAS, LOCATED SOUTH OF THE 400,000 TANK AND BETWEEN THE TWO FUEL OIL AGSTS WERE OBSERVED. READINGS OF UP TO 90 PPM WERE OBTAINED FROM HOLES DRIVEN INTO THE SOIL OF THE CONTAINMENT AREA, ALSO DEBRIS WAS NOTED NEAR THE NORTHEASTERN PORTION OF THE CONTAINMENT AREA.

SEVERAL OLD DRUM WERE NOTED ALONG THE WESTERN SIDE OF THE OFFICE BUILDING. ONE DRUM APPEARED TO CONTAIN OIL CONTAMINATED WATER. OIL STAINS AND DEBRIS WERE OBSERVED THROUGH OUT THIS AREA, AND MORE DEBRIS WAS NOTED BEHIND THE OFFICE BUILDING.

FRANK SORCE AND THE WRITER CONCLUDED THE FACILITY WALK AROUND AND PROCEEDED TO THE OFFICE. THE WRITER STATED TO MR. COYLE THAT SEVERAL DRUMS AND STAINING WAS OBSERVED. THE WRITER STATED THAT THE INSPECTION WOULD BE INCORPORATED INTO A REPORT AND A COPY WOULD BE FORWARDED.

FRANK SORCE AND ANDREW CYR DEPART SITE.



ATTACHMENT QQ

How is the

In the Matter of

Lancia Oil Co., Inc. Hackensack, New Jersey

Docket-No. OH-II-81-11

Violation of the Oil Pollution:
Prevention Regulations Issued:
Pursuant to \$311(j)(1)(C) of the:
Clean Water Act of 1977, 33 U.S.C.:
\$1321(j)(1)(C):

NOTICE OF VIOLATION AND ASSESSMENT OF CIVIL PENALTY

#### NOTICE OF VIOLATION

THIS IS TO NOTIFY YOU THAT the United States Environmental Protection Agency (EPA) has reason to believe that Lancia Oil Co., Inc. (hereinafter, "Respondent"), with offices located at 340 South River Road, Hackensack, New Jersey 07608 is subject to the Oil Pollution Prevention Regulations, 40 C.F.R. Part 112, promulgated pursuant to \$311(j)(1)(C) of the Clean Water Act, 33 U.S.C. \$1321(j)(1)(c), and that Respondent has violated \$112.3 of the Regulations, and that more specifically, Respondent has:

- 1. failed to prepare and maintain at its facilities located at the above address after July 10, 1974 a Spill Prevention Control and Countermeasure (SPCC) Plan prepared in accordance with good engineering practices and meeting all requirements of 40 C.F.R. §112.7, as required by §112.3 of the Regulations.
- 2. failed to fully implement at its above-specified facilities by January 10, 1975 an SPCC Plan prepared in accordance with good engineering practices and meeting all requirements of 40 C.F.R. \$112.7, as required by \$112.3 of the Regulations.

#### SPECIFIC FINDINGS OF VIOLATION

On October 15, 1980 an EPA-authorized inspection of Respondent's facility was performed. EPA's inspector spoke with Mr. Ugo Lancia, on information and belief the president of Respondent corporation, who stated that an SPCC Plan for the facility did not exist. The facility maintains oil storage capacity in excesss of 1,320 gallons above ground, specifically, approximately 1,500,000 gallons, and oil, if released from its containment at the facility, is capable of reaching the Hackensack River, a water of the United States.

ATTACHMENT QC.1

#### ASSESSMENT OF CIVIL PENALTY

Section 311(j)(2) of the Clean Water Act, 33 U.S.C. \$1321(j)(2), and regulations promulgated thereunder, in particular, 40 C.F.R. \$112.6, provide that violation of 40 C.F.R. \$112.3 gives rise to liability for a civil penalty not to exceed \$5,000 (FIVE THOUSAND DOLLARS) for each day the violation continues.

WHEREFORE, on the basis of the facts presently before the EPA, a civil penalty is hereby proposed to be assessed against against Respondent in the amount of \$10,000.00 (TEN THOUSAND DOLLARS).

#### MITIGATION OF CIVIL PENALTY ASSESSED

Prior to payment of the penalty proposed to be assessed or the submission of a request for a Hearing, as set forth below, Respondent may, within 15 (FIFTEEN) days of receipt of this Notice, submit to EPA written explanations, information, or other materials in answer to the charges made, in mitigation of the penalty assessed, or bearing on its efforts to achieve compliance after notification of the violation. In addition to receipt of this Notice, "notification of the violation" shall include actual or constructive notice to Respondent following any EPA inspection of Respondent's facility for purposes of determining compliance with EPA's SPCC Regulations or following receipt by Respondent of an EPA SPCC compliance survey and completion and return of that survey to EPA by Respondent or any of its officers, employees, or authorized agents.

If the information to be submitted includes corrective actions or additional preventive measures to be taken, Respondent shall agree to commit itself to take such measures in as short a time as possible, by means of a written statement to that effect signed by a corporate officer. Such a commitment shall include a proposed schedule of compliance, including a statement of the commitment of necessary resources, which comitment shall be made by a duly authorized officer of Respondent of at least the rank of vice-president.

A reassessment of the proposed penalty will be made on the basis of any information received, and a revised assessment of civil penalty for violation of the Oil Pollution Prevention Regulations may be issued if it is determined that a penalty in a different amount is appropriate. If it is determined that the amount of penalty originally proposed should not be changed, Respondent shall be so informed.

Any written explanations, information, or other materials in answer to the charges made, or in mitigation of the penalty assessed, shall be submitted to the Director, Enforcement Division, United States Environmental Protection Agency, Region II, 26 Federal Plaza, New York, New York 10278 through the duly appointed representative of the Enforcement Division Director, whose name appears below as the Agency Contact for Further Information and Settlement Matters.

#### NOTICE OF OPPORTUNITY FOR A HEARING

Within 30 (THIRTY) days of the date of receipt of the Notice of Violation, Respondent may, pursuant to \$114.5 of the Interim Regulations on Civil Penalties for Violation of Oil Pollution Prevention Regulations, 40 C.F.R. Part 114, published at 39 Fed. Reg. 169, pp. 31602-31603 (August 24, 1974), request a hearing by submitting a written request, signed by a duly authorized officer, director, agent, or attorney of Respondent, to the Regional Administrator, Region II EPA, with a copy of said request to the representative of the Division Director specified below. Requests for hearings shall state the name and address of the person requesting the hearing, enclosed a copy of the Notice of Violation, and state with particularity the issues to be raised at the hearing. If the request complies with the requirements of 40 C.F.R. \$114.5, and hearing will be scheduled at the earliest date on which the Region II Hearing Officer is available, at a time and location set by EPA after consultation with Respondent. The hearing will be conducted in accordance with 40 C.F.R. \$114.9. Respondent may be represented by counsel at the hearing.

Within 30 (THIRTY) days after the delivery of the transcript of record of the hearing, the Presiding Officer shall issue findings, including the amount of civil penalty to be assessed. A copy of the Presiding Officer's decision shall be sent to Respondent. The decision of the Presiding Officer shall become the final decision of EPA unless within 15 (FIFTEEN) days from Respondent's receipt of such decision Respondent appeals the decision to the Administrator. Any appeal must follow the format set forth in 40 C.F.R. \$114.11(b). In rendering his decision, the Administrator may adopt, modify, or set aside the decision of the Presiding Officer.

If the decision of the Presiding Officer, or, in the case of an appeal, the Administrator, assesses a civil penalty as part of his decision, such penalty shall be payable within 30 (THIRTY) days of receipt of the Final Order. Any finding by the Presiding Officer or, in the case of an appeal, the Administrator, that Respondent has failed to prepare and/or implement an SPCC Plan at its facility shall be remedied by the entry of Respondent and EPA into a Consent Order providing for preparation and/or implementation of an SPCC Plan according to a time schedule satisfactory to EPA Region II. Such Consent Order shall be executed by the Respondent not later than 30 (THIRTY) days of receipt of the final order.

Failure on the part of Respondent to pay the civil penalty so assessed within the time provided shall result in the commencement of a collection action against Respondent on the part of the United States pursuant to 28 U.S.C. §§1345 and 1355. Failure on the part of Respondent to enter into a Consent Order within the time provided shall result in the commencement of an action against Respondent on the part of the United States for such injunctive relief as may be required.

#### SETTLEMENT CONFERENCE

Regardless of whether a hearing is requested, at any time after receipt of this Notice of Violation, and prior to the date set for a hearing,

Respondent may confer with EPA concerning the violation noticed herein or the amount of penalty to be assessed. Should such conference result in an agreement, that agreement shall be issued as a Settlement Agreement in the nature of an Order on Consent by the Regional Administrator, Region II EPA. The issuance of such a Settlement Agreement shall constitute a waiver of Respondent's right to contest through further administrative proceedings any matter agreed to

### SPCC PUBLIC FILE

EPA Region II maintains a public spill prevention file at its offices located at 26 Federal Plaza, New York, New York 10278, Room 432. This file contains information on past decisions rendered by EPA both Regionally and on appeal to the Administrator in connection with the hearing procedures set forth above, as well as current spill prevention regulations and pertinent memoranda issued from time-to-time by EPA Headquarters, Washington, D.C. To request access to this file, you may contact Dr. Richard A. Baker, Chief, Permits Administration Branch, Management Division, at the above address, or by tele-

### DEFAULT BY RESPONDENT

The failure of Respondent to respond substantively to this Notice of Violation as prescribed above, or to request a hearing as provided for herein, will result in an action being commenced by the United States to collect the full amount of the original assessment of civil penalty made by EPA for this violation, and for such other and further relief, including injunctive relief, as may be appropriate. The Respondent is hereby placed on notice that each day on which the violations indicated above have occurred or continue to occur constitutes a new violation, and additional penlaties may be assessed therefor at any time during which this Notice remains outstanding. The commitment of Respondent to correct the deficiencies noticed and to comply with 40 C.F.R. Part 112 in the minimum time posible after receipt of this Notice is to its

### AGENCY CONTACT FOR FURTHER INFORMATION AND SETTLEMENT MATTERS

If you wish to discuss the possibility of a settlement of this matter, schedule a conference with EPA, or make further inquiries, contact Henry Gluckstern, Attorney, Water Enforcement Branch, Enforcement Division, Region II, 26 Federal Plaza, New York, New York 10278, or telephone 212-264-

Dated this 4th day of

Director !

Enforcement Division United States Environmental

Protection Agency

Region II

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Aug 20 11 55

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION II 26 Federal Plaza New York, New York 10278

In the Matter of

LANCIA OIL CO., INC. Hackensack, New Jersey

Respondent.

Docket No.: OH-II-81-11

CONSENT AGREEMENT
AND ORDER

Proceeding Under the Oil Pollu-: tion Prevention Regulations Issued Pursuant to \$311(j) of : the Clean Water Act, 33 U.S.C. \$311(j) :

#### PRELIMINARY STATEMENT

On August 4, 1981, the United States Environmental Protection Agency ("EPA", hereinafter referred to as "Complainant") issued a Notice of Violation pursuant to §311(j) of the Clean Water Act, 33 U.S.C. §1321(j) against LANCIA OIL CO., INC. (hereinafter, "Respondent") for its facility located at Hackensack, New Jersey. The Notice of Violation charged Respondent with specific violations of Oil Pollution Prevention Regulations promulgated at 40 C.F.R Part 112. The conditions consented to through this Consent Agreement and Order follow Respondent's submittal to EPA of a Spill Prevention Control and Countermeasure (SPCC) Plan meeting at least the minimum requirements of 40 C.F.R. §112.7.

#### CONSENT AGREEMENT

Based upon the foregoing, and pursuant to §311(j) of the Act, 33 U.S.C. §1321(j), and 40 C.F.R. §114.3, it is hereby agreed that with respect to the above-referenced facility, Respondent shall comply hereinafter with all requirements of relevant regulations at 40 C.F.R. Part 112 and additionally with the following requirements:



- (1) Not later than October 29, 1984, Respondent shall submit to the person named in paragraph 2, below, a copy of a recertification, by a professional engineer, of its SPCC Plan, as required pursuant to 40 C.F.R. §112/5(b), said recertification to comprise Respondents triennial Plan review as required by that subsection.
- (2) Not later than 30 (THIRTY) days from the date of this Consent Agreement and Order, Respondent shall submit to EPA a notarized affidavit, the form of which shall be supplied by EPA, signed by a corporate officer of Respondent of at least the rank of vice-president, stating that the SPCC Plan for the subject facility has been implemented in accordance with the requirements of said Plan. The affidavit shall be submitted to Mr. Henry Gluckstern, Attorney, Waste and Toxic Substances Branch, Office of Regional Counsel, U.S. EPA Region II, 26 Federal Plaza, Room 437, New York, New York 10278.
- (3) Respondent shall pay a civil penalty in the amount of \$2,500 (TWO THOUSAND FIVE HUNDRED DOLLARS) by certified or cashier's check payable to the order of "UNITED STATES COAST GUARD." The amount of civil penalty shall represent the final assessment of the civil penalty proposed to be assessed by the Notice of Violation by which this proceeding was commenced. Such payment of civil penalty shall be remitted to the person designated in paragraph (2), supra, at the address indicated therein, and received no later than 30 (THIRTY) calendar days from the date of of this Consent Agreement and Order.

This Consent Agreement and Order is in full settlement of all claims which might have been asserted pursuant to the Notice of Violation dated August 4, 1981 and 40 C.F.R. Part 112. Respondent admits the jurisdictional allegations of the Notice of Violation and admits the factual allegations set forth therein. Respondent consents to the assessment of the civil penalty set forth herein and waives any right it may have to a hearing on the Notice of Violation.

This Consent Agreement and Order and the terms of settlement embodied herein shall be deemed automatically withdrawn and no longer binding upon EPA unless it is signed and consented to by Respondent within 30 (THIRTY) calendar days of the date of this agreement, as indicated below.

Date	of	Agreement:	JUN	2	9	1984	
Date	$\circ$	Vareemene.					

·	
FOR THE RESPONDENT:	
Dated this day of By:	(signature)  (signature)  (ARNCIA OIX CO  1) GO LANCIA  (print name)
FOR THE COMPLAINANT:  Dated this $29+4$ day of By: $\sqrt{une}$ , 1984	Title:  DOUGLAS R BLAZEY Regional Counsel United States Environmental Protection Agency Region II Attorney for Complainant
ORDER	•
The Regional Administrato	or of EPA, Region II, concurs
in the provisions of the above Cons	ent Agreement. The Consent
Agreement is hereby approved and is  Dated this day of By:	RICHARD T. DEWLING Acting Regional Administrato United States Environmental Protection Agency Region II

ATTACHMENT RR



# State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

#### DIVISION OF WATER RESOURCES CN 029 TRENTON, NEW JERSEY 08625

NOTICE OF VIOLATION

GEORGE G. McCANN, P.E.

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

	DATE 4/22/87
ENFORCEMENT ELEMENT	7
METRO BUREAU OF REGIONAL ENFORCEMENT	
TELEPHONE NO. (201) 669 - 3700	
TELEPHONE NO. (201) 664 1800	
ТҮРЕ	TVPF DSW
PCWS # NJPDES #	TYPE PSW RCRA#
NAME OF FACILITY Lancia Oil Company	Digen Land
LOCATION OF FACILITY 340 South River Se. MUN	L. Ko COUNTY ROLLA
LOCATION OF FACILITY 340 South KINDY SE. MUN	. Itelesact County Day, and
FACILITY REPRESENTATIVE AND TITLE Hago Sancia	ownor
You are hereby NOTIFIED that during an inspection of your facility	on the above date, the following violations were
noted and remedial actions are required:	<b>5</b>
noted and remedial actions are required.	
DESCRIPTION OF VIOLATION/REMEDIAL ACTION:	spillage at oil products and
general poor house cleaning hornthed in	1 the discharges at contamin
DESCRIPTION OF VIOLATION/REMEDIAL ACTION: Periodic  GENERAL DOOR house cheming hornsted in  Anotherolis to suches and grant waters o	+ the state,
Directed to charge spill mate	cial c

Remedial action to correct the violations must be initiated immediately. Within five (5) calendar days of receipt of this Notice of Violation, you shall telephone the investigator issuing this notice at the above number with the corrective measures you have initiated to attain compliance. The issuance of this document serves as notice to you that the Department has determined that a violation has occurred and does not preclude the State of New Jersey or any of its agencies, from initiation of further administrative or judicial enforcement action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are subject to penalties of up to \$25,000 per day.

The above noted violations are in violation of the following N.J. Statutes/Regulation, and will be recorded as part of the

New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and appropriate Regulations.

New Jersey Safe Drinking Water Act (N.J.S.A. 58:12A-1 et seq.) and appropriate Regulations.

New Jersey Water Supply Management Act (N.J.S.A. 58:1A-1 et seq.) and appropriate Regulations.

New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.) and appropriate Regulations.

New Jersey Flood Hazard Area Control Act (N.J.S.A. 58:16A-50 et seq.) and appropriate Regulations.

Further enforcement action, which will require a written response, may be issued on these violation(s) and any additional violations found during the inspection.

Surford CARRETT

Investigator, Division of Water Resources, DEP

Violation received by

White - Original

permanent enforcement history of your facility:

Canary - Bureau File

Pink - Criminal Justice

Goldenrod - Central File

ATTACHMENT RR-



Department of Environmental Protection
Division of Water Resources
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E. DIRECTOR

NOTICE OF VIOLATION

	DATE Mad 2, 1989
ENFORCEMENT ELEMENT BUREAU OF REGIONAL ENFORCEMENT TELEPHONE NO. 201-66-3900	
TYPE  PCWS # NJPDES #  NAME OF FACILITY Lanciu G !    LOCATION OF FACILITY S FINICH MUN. J  FACILITY REPRESENTATIVE AND TITLE Mr. Llanciu Lanciu	TYPE DISCH_SWRCRA#
You are hereby NOTIFIED that during an inspection of your facility or noted and remedial actions are required:	the above date, the following violations were
DESCRIPTION OF VIOLATION/REMEDIAL ACTION: O.   She	en in storm water Transic oil slicked
The above noted violations are in violation of the following N.J. Statutes, permanent enforcement history of your facility:	Regulation, and will be recorded as part of the
New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and New Jersey Safe Drinking Water Act (N.J.S.A. 58:12A-1 et seq.) and New Jersey Water Supply Management Act (N.J.S.A. 58:1A-1 et seq.) and New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.) and New Jersey Underground Storage of Hazardous Substance Act (N.J.S.A.	opropriate Regulations.  and appropriate Regulations.  d appropriate Regulations.
Remedial action to correct the violations must be initiated immediately. Notice of Violation, you shall telephone the investigator issuing this no measures you have initiated to attain compliance. The issuance of this doment has determined that a violation has occurred and does not preclude from initiation of further administrative or judicial enforcement action, or other violations. Violations of these regulations are subject to penalties or	tice at the above number with the corrective cument serves as notice to you that the Depart the State of New Jersey or any of its agencies or from assessing penalties, with respect to this
Further enforcement action, which will require a written response, may be violations found during the inspection.	
Kathlen Beyer	Violation received by
Investigator, Division of Water Resources, DEP	

White - Original

Canary - Bureau File

Pink - Criminal Justice

Goldenrod - Central File

ATTACHMENT RE-



# State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES CN 029 TRENTON, NEW JERSEY 08425

NOTICE OF VIOLATION DATE 1/14/92 ENFORCEMENT ELEMENT **BUREAU OF REGIONAL ENFORCEMENT** TELEPHONE NO. 201-669-3900 TYPE PCWS # SUPPLY DISCH. MUN Tas You are hereby NOTIFIED that during an inspection of your facility on the above date, the following violations were noted and remedial actions are required: DESCRIPTION OF VIOLATION/REMEDIAL ACTION: Jalune) The above noted violations are in violation of the following N.J. Statutes/Regulation, and will be recorded as part of the permanent enforcement history of your facility: New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and appropriate Regulations. New Jersey Safe Drinking Water Act (N.J.S.A. 58:12A-1 et seq.) and appropriate Regulations. New Jersey Water Supply Management Act (N.J.S.A. 58:1A-1 et seq.) and appropriate Regulations. New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.) and appropriate Regulations. New Jersey Underground Storage of Hazardous Substance Act (N.J.S.A. 58:10A-21 et seq.) and appropriate Regulations. Remedial action to correct the violations must be initiated immediately. Within five (5) calendar days of receipt of this Notice of Violation, you shall telephone the investigator issuing this notice at the above number with the corrective measures you have initiated to attain compliance. The issuance of this document serves as notice to you that the Department has determined that a violation has occurred and does not preclude the State of New Jersey or any of its agencies, from initiation of further administrative or judicial enforcement action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are subject to penalties of up to \$25,000 per day. Further enforcement action, which will require a written response, may be issued on these violation(s) and any additional violations found during the inspection. Violation received by

White - Original

Investigator, Division of

Canary - Bureau File

Pink - Criminal Justice

Goldenrod - Central File

ATTACHMENT SS



## State of New Jersey

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

# DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

GEORGE G. McCANN, P.E. DIRECTOR

> DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

June 10, 1987

# CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Ugo Lancia Lancia Oil Company, Incorporated 340 South River Street Hackensack, NJ 07601

Re: The New Jersey Pollutant Discharge Elimination System Lancia Oil Company, Incorporated Hackensack/Bergen County

Dear Mr. Lancia:

An inspection of your facility was conducted on April 15, May 12, and May 20, 1987 by representatives of this Division. During this inspection, it was learned that:

- The spillage of petroleum products in the product transfer and drum storage areas results in the illegal discharge of contaminated stormwater to the surface and ground waters of this State in violation of the New Jersey Pollutant Discharge Elimination System (NJPDES) Regulations, N.J.A.C. 7:14A-1 et seq. A Notice of Violation (NOV) for this deficiency was issued at the time of inspection.
- 2) The facility has a petroleum products storage capacity in excess of 400,000 gallons and as such is required to develop and maintain on-site a Discharge (DPCC) Plan in accordance with N.J.A.C. 7:1E-1 et seq.

ATTACHMENT SS-

You are therefore Directed to:

- 1) Immediately cease all illegal discharges.
- 2) Clean and properly dispose of all materials contaminated by the petroleum product discharges.
- 3) Contact Mr. Walter Nedick at (609) 292-0407 for information regarding a DPCC Plan.
- 4) Obtain a NJPDES discharge to surface water (DSW) permit for the facility's stormwater discharge.
- 5) Sumbit to this writer within thirty (30) days of the receipt of this correspondence a written report concerning the corrective actions taken. You must include with this report a copy of all waste manifests generated by the proper disposal of the contaminated materials.

NJPDES permit application forms can be obtained by contacting:

Mr. George Caporale, Chief
Bureau of Permits Administration
Water Quality Management Element
Division of Water Resources
P.O. Box CN-029
Trenton, NJ 08625

Any questions concerning the completion of the application should be addressed to Mr. Caporale or the BPA staff, who may be reached at (609) 984-4428. The completed application must be sent to Mr. Caporale, with a copy of the cover letter to this writer.

Failure to comply with this Directive may result in further enforcement action by this office, including the imposition of penalties, pursuant to N.J.S.A. 58:10A-10. Therefore, kindly devote your full attention to this matter. If you have any questions concerning this Directive, please contact Sanford E. Garrett at (201) 669-3900.

Very truly yours,

Thomas B. Homing

Thomas B. Harrington Supervisor, Compliance Monitoring Unit Metro Bureau of Regional Enforcement

A27:E13:G25

cc: Mr. George Caporale, BPA
Mr. Walter Nedick BMP
Mr. John Christ, H.O.

bcc: Mohammed Z. Hussain, Enforcement Robert Candido, Criminal Justice



#### State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

## DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

GEORGE G. McCANN, P.E. DIRECTOR

October 2, 1987

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Ugo Lancia, Owner Lancia Oil Company 340 South River Street Hackensack, N.J. 07606

Re: Delinquent Reply to NJDEP Directive of June 10, 1987

Dear Mr. Lancia:

On June 10, 1987, the Division of Water Resources (DWR) directed Lancia Oil to excavate and properly dispose of oil contaminated soil at the Lancia Oil facility in South Hackensack and to submit a written report within thirty (30) days to this office detailing the corrective action taken. As requested in your June 19, 1987 letter Lancia Oil was given a two week extension by the DWR. A copy of the directive which was sent on June 24, 1987 is enclosed for your information.

The reply which was to have been submitted to DWR by August 7, 1987 has not been received. Lancia Oil is therefore directed to immediately submit the required written report to:

Mr. Stefan D. Sedlak
Assistant Chief
Metro Bureau of
Regional Enforcement
NJDEP-Division of Water Resources
2 Babcock Place
West Orange, NJ 07052

Failure to comply with the requirements of this directive will result in enforcement action in accordance with the New Jersey "Water Pollution Control Act", N.J.S.A. 58:10A-1 et seq. If you have any questions regarding this letter please contact Sanford E. Garrett of this office at (201) 669-3900.

Very truly yours,

Stefan D. Sedlak Assistant Chief Metro Bureau of

Regional Enforcement

E18:G26

Enclosure

bcc: Mohammed Hussain

Robert Candido



#### State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

## DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

GEORGE G. McCANN, P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

April 6, 1988

#### CERTIFIED MAIL RETURN RECEIPT

Mr. Ugo Lancia, Owner Lancia Oil Company 340 South River Street Hackensack, New Jersey 07606

Re: Delinquent Reply to

NJDEP Directive of October 2, 1987

Mr. Lancia:

On June 10, 1987, the Division of Water Resources (DWR) directed Lancia Oil Company to remove and properly dispose of oil contaminated soil at the Lancia Oil Company facility in South Hackensack, and to submit a written report within thirty (30) days detailing corrective action taken. A copy of the directive which was sent is enclosed for your information.

On October 2, 1987 DWR issued a delinquent reply directive to Lancia Oil for non-compliance with the June 10, 1987 directive. As of this date no response has been received by this office.

Lancia Oil Company is hereby directed to respond in a complete and appropriate fashion to the June 10, 1987 directive upon receipt of this directive. This will serve as a final notice concerning this matter. Failure to attain compliance will result in the institution of further enforcement action. Therefore, we anticipate your prompt cooperation.

Please direct all correspondence and inquiries to Sanford Garrett of this office at (201) 669-3900.

Very truly yours,

Stefan D. Sedlak Section Chief Metro Bureau of Regional Enforcement

c: John Christ, H.O.

bc: Mohammed Z. Hussian

Robert Candido, Criminal Justice

Enclosure E13 ATTACHMENT TT



#### 340 South River Street Hackensack, New Jersey 201-342-5454 TELEX: 134-463

RECEIVED
DIVISION OF
WATER RESOURCES
ENFORCE: ENT ELEMENT

May 5 12 41 PM '88

UGO LANCIA PRESIDENT

Dept. of Environmental Protection Division of Water Resources Metro Bureau of Regional Enforcement 2 Babcock Place West Orange, N.J. 07052

Re: Delinquent reply to N.J. Dep. Directive of Oct. 2, 1987

Dear Sir,

On June 10, 1987 DWR directed Lancia to remove and dispose of oil contaminated soil at our facility. We failed to comply due to my being in and out of hospital most of 1987 and part of 1988 (Lung Cancer). However we are now attempting to rectify violations.

- 1. Waste Motor oil in drums was disposed of thru Lionetti Waste Gil Co.
- 2. Yard has been generally cleaned and concrete pad has been installed.
- 3. The contaminated soil (oil spill) has been cleaned up and put in drums waiting for waste dealer to dispose of drums.
- 4. DFCC plan is being drawn by Equipment Specialist and will forward as soon as ready.

I have been in touch with your representative Mr Sanford Garret as to our progress.

Thank you for your patience.

Sincerely,

Ugo Lancia



RECEIVED
DIVISION OF
WATER RESOURCES
ENFORCEMENT ELEMENT

JUN 3 11 53 AM '88

UGO LANCIA PRESIDENT

June 2, 1988.

Kathleen Beyer
Metro Bureau of Regional Enforcement
Division of Mater Resources
Bacbock Place
Mest Crange, N.J. 07052

Dear Ms. Beyer,

Enclosed please find manifest for 6 drums removed from Lancia Oil Co. premises on May 31, 1988.

Sincerely, ()

Ugo Lancia

# Division of Hazardous Waste Management Manifest Section CN 028, Trenton, NJ 08625

isa type or print in Mock la<mark>tters. (Form dasigned for use on allte (10-p tony ypawriter.)</mark> 5 - - Approved 5418 A 1 190 1003 1 13 om dor's US EPA ID Ni UNIFORM HAZARDOUS NJ D D D D 2 5 5 D 3 6 6 D D D D D D **WASTE MANIFEST** Generator's Name and Mailing Additi **NJA** 0423160 Lancia Oil Company, Inc. 340 South River Street Hackensack, New Jersey 07601 Generator's Phone ( 201 ) 342-5454 Transporter 1 Company Name Same US EPA (D Number ปี เคมีเลกร เป็ Clean Venture Inc. NJ 0 9 8 2 2 8 1 0 1 6 NJ DEP S 5811/ Fransporter 2 Company Name D. Transcortor's Prone - 201 412-4000 El State Trans (D 9 Designated Facility Name and Site Address US EPA 10 Number Cycle Chem, Inc. F. Transporter's Phone ( 217 South First Street G. State Faculty's ID NJB002200046 Elizabeth, New Jersey 07206 12 Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and iD Number) Waste No. Wit Vol Quantity |G∪G⊅M∪35 | 3↑? |X|7|2,5| Waste Petroleum Mixture Solid 5 20 Jun 105 for 1000 yet 1 20 10 45/30 S,T 351 Speedy dry,dirt 54 #2 Fuel oil E Special Handing instructions and Applicanal Information Product code # 7/57/-82 Material is New Jersey Hazardous Waste NON RCRA & NON DOT Hazardous Maste Nork order GENERATOR'S CERTIFICATION: Thereby deciare that the contents of this consignment are fully and accurately described above by Luer anioping hairle and are classified, packed, marked, and labeled, and are in air econding to applicable international and national government regulations. if fiam a large quartity generator, I cert fy mat I have a program in place it reduce the volume and toxicity of waste generated to the degree _ n = eldetermined economically grapticable and that I have selected the pract Cable method of meatment storage or deposal purrently available future torestits number health and the environ nami OR, if ram a small quantity, generator, linave mai the best waste management method that is available to me and that I can afford 17 transporter 4 Acknowledgement of Receipt of Materials Printed/Typed Name Signature March Day 17-19 Nov. 231 18 Transporter 2 Acknowledgement of Receipt of Materials Phinted/Typed Name Signature Honto Day 19 Discrepancy Indication Space ATTIX CHAPTEN 20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name

**IJA**0423166

Month Day

Metro Enf.

LANCIA OIL

340 South River Street Hackensack, New Jersey 201-342-5454 Pec d DIVISION OF

JAN 23 1992: AND EMENT

OEP JAN 27 9 CO AM 97 PRESIDENT

State of New Jersey
Dept. of Environmental Protection
Division of Water Resources
CN 029
Trenton, N.J. 08625

January 16,1992

Attn: Barbara E. Cutler

Dear Ms. Cutler,

In reference to your Violation Notice of 1/14/92. Regarding our berm along side the Hackensack river. The work has been given to x. Joyce Inc. and weather permitting will be done as soon as possible.

Sincerely, Gary Coyle

GC/ch

ATTACHMENT TEV

ATTACHMENT UU

#### NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY BUREAU OF DISCHARGE PREVENTION

FACILITY NAME: Lancia Oil Company Inc.

ADDRESS:

340 South River Street Hackensack, NJ 07601

**BLOCK(S):** 00028B LOT(S): 00012

MUNICIPALITY: Hackensack City Bergen County

COUNTY:

TIME AT SITE: 9:35 to 11:00 a.m.

FIELD INSPECTOR(S): Priit Pals

DATE OF INSPECTION: 9/3/92

Merary Sanchez

PURPOSE OF INSPECTION:

To verify the facility's storage capacity.

PERSONS INTERVIEWED:

Ugo Lancia, President Gary Coyle, Sales

REPORT PREPARED BY: Merary Sanchez, Environmental Engineer REPORT REVIEWED BY: Darryl Jennus, Chief - Field Verification Section

DATE OF REVIEW:

#### DETAILS OF INSPECTION

Facility was visited on September 3, 1992 to verify its storage capacity. Lancia Oil has on site a storage capacity of petroleum products of approximately 1.21 million gallons. There are three tanks on the site: 800,000 gallon tank which is used to store #2 Fuel Oil which has dimensions of 60' in diameter and 40' in height; 400,000 gallon tank used to store # 2 Fuel Oil which has dimensions of 400 in diameter and 40' in height; 10,000 gallon tank used to store Kerosene which has dimensions of 8' in diameter and 24' in length. The tanks are less than 15 years old.

The 800,000 gallon tank is presently used and as of 9/2/92 it contained approximately 123,000 gallons of #2 Fuel Oil. The 400,000 gallon tank was reported to be out of service but the lines were not The 10,000 gallon tank was empty on the day of the inspection cutoff. and is primarily used during the winter.

The tanks are surrounded on three sides by a concrete containment wall and on the other side by an earthen berm. The bottom of the secondary containment is gravel or earth.

A photograph of the three tanks and one side of the containment wall was taken and is hereby attached.

The facility has a tank truck loading/unloading area and a dock as shown in the drawing (see next page). #2 fuel oil is delivered by a barge carrying approximately 200,000 to 300,000 gallons.

Lancia Oil Co. stores oil for Royal Petroleum. Oil was sold 6 years ago but presently the facility is in a pseudo active state due to the owner's poor health.

ATTACHMENT UU-1

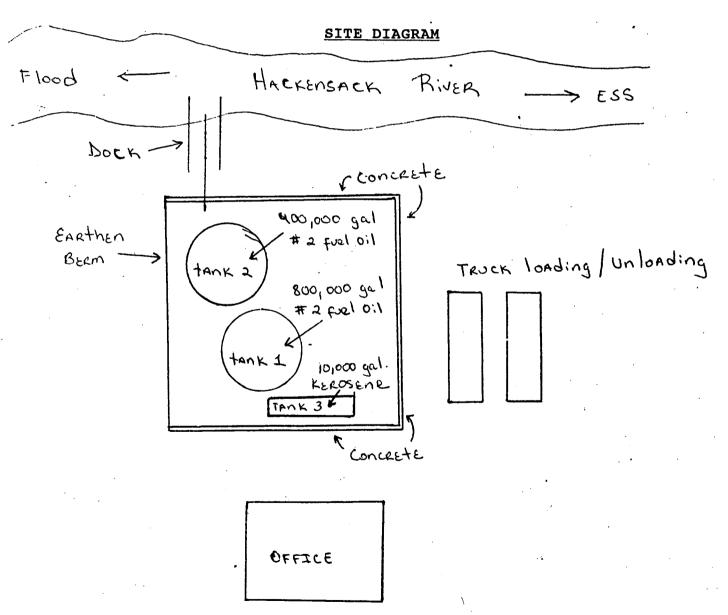
#### RECOMMENDATIONS

It was determined that the storage capacity of the facility is as follows:

#2 Fuel Oil tank: 800,000 gallons
#2 Fuel Oil tank: 400,000 gallons
Kerosene tank: 10,000 gallons
Total Storage Capacity: 1,210,000 gallons

Lancia Oil had to prepare a DPCC/DCR plan and submit it to the department by August 1, 1992.

Mr. Ugo Lancia was to either decrease the storage capacity below 200,000 gallons or submit a plan to the department.



ATTACHMENT UU-2

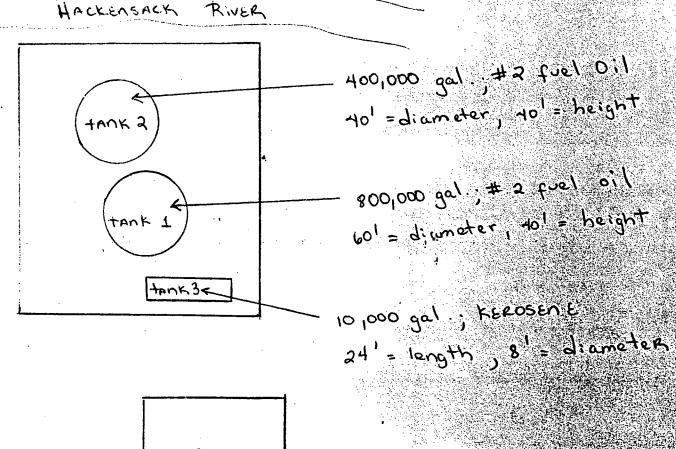
### NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY BUREAU OF DISCHARGE PREVENTION

ITEM	TANK DESIGNATION	MATERIAL STORED	CAPACITY (gallons)
1.		# 2 = . 1 = 1	400
2.		# 2 FUEL OIL	800,000
3.		# 2 FUEL OIL	400,000
4.		Kerosene	10,600
5.			
6.			
7.			
8.			
9.			
10.		·	
$\frac{10}{11}$ .	·		
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ATTACHMENT UU-3

	CODE REFERENCE:	_	Section(s)	Paragraph(s)
	· .			
		•		
LS OF TION	-			
DETAILS VIOLATIC			·	
		,		
	REMARKS			
			.,	
	RECOMMENDED ACTIO	•		
		IION	•	

Draw diagram below showing location and distances of violation with respect to street and/or landmarks or unusual site conditions.



Office

ATTACHMENT ULL W

## FIELD RECORD OF VIOLATION

VIOL	ATION DATE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Sec.A				
	MAILING ADDRESS 340 South River Street, Hackensack, 07601  No. Street City Zip Code			
7	·			
	TYPE OF OWNERSHIP: Individual Partnership Corporation Municipal  NAME OF OWNER, PARTNERS, OFFICERS, OFFICIALS			
ATTO	Ugo LAncia			
VIOL	TITLE PRESIDENT			
Z	PERSONS INTERVIEWED Ugo LANCIA, GARY Coyle PHONE (201) 342-5454			
PERSON IN VIOLATION	PERSON AUTHORIZED TO RECEIVE PROCESSES Ugo Lancia			
	MAILING ADDRESS 340 South River Street, HACKENSACK, 07601  Street City Zip Code			
	REMARKS:			
Sec.B				
	LOCATION ADDRESS: 340 South River st. Hackensack, Bergen			
LOCATION OF VIOLATION	Lot <u>COO12</u> Block COO28 B			
OLA:				
35	PREMISES OCCUPIED AS:			
Sec.C				
	CODE REFERENCE: Chapter(s) 4 Section(s) 6; 6 Paragraph(s) (0): (6)2  DETAILS LANCIA 01) Co. has on site a storage capacity of			
·	petroleum products greater than 1,000,000 gallons but less			
	than four million gallons (see diagram). A major facility or			
NO D	this size should have turned in a DPCC and A DCR plan			
	on August 1, 1992. The total storage capacity of the			
FVIO	three tanks were as follows: 800,000 gals of # 2 fuel oil			
DETAILS OF VIOLAT	in tank 1; 400,000 gals of # 2 ruel oil in tank 2 and			
PETA	or hazardous substances. In tank 3 for a total of 1.21 million galan REMARKS			
	As of 9 2 92 p.m. readings; about 123,000 gallons or # 2 ext 0:1 were			
	RECOMMENDED ACTION Facility was not self Reporting and was			
	determined to be in violation as receptor above			
Review	17-11)(128			
2001201	Date Inspector's Signature			
	Date Print Name			
	Date Pritupy Chultur Crylleer			
	Check here if reverse side is used. (Over)			
ATTACHMENT LLL-S				

ATTACHMENT VV



# State of New Jerney DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL QUALITY

JOHN FITCH PLAZA, P. O. BOX 2807, TRENTON, N. J. 08625

# **ORDER**

To: Lancia Oil Co., Inc. Ugo Lancia, Registered Agent 160 East Railway Avenue Paterson, New Jersey 07503

Re: N.J.A.C. 7:27- 8.3 (a) & (b) Plant Identification No. Not listed Violation Occurred on Premises Known As: 340 South River Street, Lot 12, Block 28-B, Hackensack City, Bergen County, New Jersey

WHEREAS, the State Department of Environmental Protection has determined by investigation(s) or inspection(s) made pursuant to the Provisions of the New Jersey Air Pollution Control Act that on November 16, 1981 at approximately 2:00 p.m. you did violate Title 7, Chapter 27, Subchapter 8 , Section 8:3(a) 5 (b) the New Jersey Administrative Code.

The investigation(s) discloses (a) that one 800,000 and one 400,000 #2 fuel oil storage tanks were constructed, installed or altered on the premises identified above without first having obtained a "Permit to Construct, Install or Alter Control Apparatus or Equipment" from the Department.

(b) that one 800,000 and one 400,000 and full oil storage tanks were used or caused andto be used on the premises identified above without first having obtained a "Certificate to Operate Control Apparatus or Equipment" from the Department.

NOW, THEREFORE, YOU ARE HEREBY ORDERED, to cease violation of said Subchapter on the premises owned, leased, operated or maintained by you on or before <u>February 21, 1982</u>

Dated: December 21, 1981

cc: Local District Field Office Newark

CERTIFIED MAIL

**ATTACHMEN** 

Edward J. (Londres, Assistant Director

Enforcement Branch



VAP001 Jul. 76